

GEOBULLETIN

October 3, 2008

Geobulletin is distributed weekly, on Friday by E-mail. Contributions are requested! Anything and everything (well almost) that you want to see in print. If you have a news item, a request, an announcement etc. email it to geodept@geology.wisc.edu. or leave it at the reception desk, Room 236 by noon on Wednesdays.

LECTURE SCHEDULE ---- All lectures (unless otherwise noted) are held on Fridays at 3:30 PM in AB20 (Laudon Lecture Hall). Coffee & cookies are served in the lobby starting at 3:15 PM.

FALL 2008 WEEKS LECTURE SCHEDULE

October 10 ----- Glenn Spinelli --- New Mexico Tech
October 17 ----- John Tarduno --- University of Rochester
October 24 ----- Donald Mkhonto - UW
October 31 ----- Rick Law – VPI
November 7 ----- Peter Mozely – New Mexico Tech
November 14 ----- Steve Wojtal – Oberlin College
November 21 ----- Joseph Licciardi --- University of New Hampshire
November 28 ----- Thanksgiving Recess
December 5 ----- David Deamer
December 12 ----- Stephen Hasiotis
December 19 -----

POSITION OPENINGS:

- Seeking at least one postdoctoral individual and as well a technician with M.S.-level training for research opportunities in our laboratories in the Department of Biology at the University of Utah or at IsoForensics, a small research company in the University's Research Park.
- Associate Development Engineer position in the College of Engineering Dean's Office at the University of California, Davis campus. Vacancy Listing #10979 - SEM Electron Beam Lithography position
- The Department of Earth Sciences at the University of Lyon1 is seeking applications for an assistant professor (maître de conférences) position in **High pressure mineral physics** starting fall 2009
- Position of Associate Professor (maître de conférence) in Mineralogy at the University Paul Sabatier, Toulouse
- The Saskatchewan Isotope Laboratory, University of Saskatchewan, Canada, seeks a full-time isotope technician/analyst.
- A position open in the Department of Geosciences, University of Arkansas-Fayetteville for an assistant professor with emphasis in structural geology and tectonics.
- **TENURE-TRACK POSITION IN SEISMOLOGY**--Geophysical Institute, Geology & Geophysics Department University of Alaska Fairbanks
- Applications are invited for a scientist to work within the Bloomsbury Environmental Isotope Facility (BEIF), a joint research facility of the Departments of Earth Sciences, Geography and Chemistry, University College London
- **JOIN KINROSS GOLD!** Grads can apply for the Generation Gold Program and gain valuable experience and training w/ attractive compensation and benefits. Summer internships are available for undergrads.
- 6 jobs to offer at the GFZ German Research Centre for Geosciences within a national wide project dealing with CO2 storage .
- The Department of Geosciences at Denison University invites applications from candidates with a background in mineralogy, petrology and high-temperature geochemistry for a tenure-track position (assistant professor) to begin in Fall 2009.
- The Department of Geology at the University of South Florida seeks a Visiting Assistant Professor in Geochemistry for 2009.
- The University Of Western Australia-Lecturer (Ref: 2519) -Metamorphic Petrology/Geochemistry, School Of Earth And Geographical Sciences -5 year appointment with further employment dependent on funding and progress
- The Department of Geology & Geophysics at Louisiana State University invites applications for two tenure-track Assistant Professor positions to begin Fall semester 2009

POSITION OPENINGS:

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Postdoctoral and Technician Positions Available in Utah

We seek at least one postdoctoral individual and as well a technician with M.S.-level training for research opportunities in our laboratories in the Department of Biology at the University of Utah or at IsoForensics, a small research company in the University's Research Park.

Jim Ehleringer <ehleringer@biology.utah.edu> and Thure Cerling <thure.cerling@utah.edu>

We are looking for broadly trained individuals interested in applications of stable isotopes to Quaternary geology, including GIS analysis and soil science, to conduct research, data analyses, and modeling related to environmental isotope signals of soils. Our interests are in both mechanisms and applications of materials of possible forensic interest.

At least one of the positions is available immediately; the searches will remain open until filled, but we hope to have the positions filled no later than January 2009. We seek quantitatively oriented individuals interested in a collaborative research environment, but able to work independently as needed.

Interested applicants should submit the following applications materials to us via e-mail: (a) a PDF format letter of interest describing your background, qualifications, career objectives, and the names and addresses of 2-3 individuals who will write letters in support of the applicant, (b) a complete curriculum vitae in PDF format, and (c) PDFs of no more than 3 publications by the applicant. Applicants should indicate when they could join our research program if offered a position.

We offer extensive analytical capacities for stable isotope analyses (e.g., the Stable Isotope Ratio Facility for Environmental Research) and a collaborative research environment.

All application materials should be e-mailed to <ehleringer@biology.utah.edu> or <thure.cerling@utah.edu> at your earliest convenience.

For additional information, please feel free to contact either Jim Ehleringer or Thure Cerling at the University of Utah.

SEM Electron Beam Lithography position

Associate Development Engineer position in the College of Engineering Dean's Office at the University of California, Davis campus. Vacancy Listing #10979

Primary responsibilities are to operate and maintain a scanning electron microscope system equipped with writing capability in nano range in support of micro and nano fabrication research. Includes routine maintenance, train lab members in Electron Beam Lithography (EBL); work closely with students, faculty and industrial users. Also includes process development, equipment trouble shooting and maintenance of other micro and nano equipment such as e-beam evaporators, Nano-Imprint-Lithography and associated imaging equipment.

Salary Range \$4,422 - \$7,517 monthly

Please see the following links for a more detailed job description and vacancy announcement

<http://jobs.hr.ucdavis.edu/jm/ViewVacancy?id=10979>

<http://jobs.hr.ucdavis.edu/jm/PositionDescriptionView?id=10979>

To apply for this position online and/or to download the application forms, please visit the UC Davis HR web site at:

http://www.hr.ucdavis.edu/Emp/Application_Process/Application_Process

The Department of Earth Sciences at the University of Lyon1 is seeking applications for an assistant professor (maitre de conferences) position in **High pressure mineral physics** starting fall 2009

Teaching aspects:

The assistant professor will teach classes in mineralogy and thermodynamics for students in Earth and environmental sciences, at the Dpt of Earth Sciences. He/she will take care of the lectures, and labs in mineralogy, crystallography and thermodynamics of mineralogical reactions. This includes the teaching of X-ray and visible spectroscopies, of X-ray diffraction, of electron microscopy, etc on any type of natural material including minerals. In particular, the assistant professor will be involved in the training of students to experiments at high pressure, in the Earth sciences and Physics departments, at the local. He/she is expected to be active in the organisation and management of the taught classes.

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Research aspects:

The position is dedicated to experimental research relevant to the structure, to the dynamics, or to the origin of the Earth and terrestrial or giant planets. The experimental approach should focus on the extreme conditions of pressure and temperature, either in diamond anvil cell or in large volume press. The assistant professor will receive support from the *in situ* expertise of the Lab. de Sciences de la Terre (LST, Dpt of Earth Sciences) and of the Lab. de Physique de la Matière Condensée et Nanostructures (LMPCN, Dpt of Physics). He(he) will be active in the operation and development of the local facility for experiments in extreme conditions (Plateforme Lyonnaise d'Expérimentation sous Conditions Extrêmes, <http://lpmcn.univ-lyon1.fr/plece/>).

The procedure to apply for a Position in France is as follows:

Selection of candidates is a two-step process:

1) To be eligible, applicants must be qualified according to the regulation by the French Ministry of Education and Research. The application website for the 'qualification' is available at http://www.education.gouv.fr/personnel/enseignant_superieur/enseignant_chercheur/antares.htm
The deadline for application for this qualification step is Oct. 14, 2008.

2) During spring 2009, 'qualified' applicants should send a curriculum vitae, including a publication list, a statement of research and teaching interests to the human resources office at University of Lyon1

This is a permanent research and teaching position.

For a general description of recruitment see <http://www.education.gouv.fr/cid1056/maitre-de-conference.html>.

Health care and pension program are included in the salary.

For further information, we encourage potential candidates to contact Dr. Isabelle Daniel.

Isabelle Daniel

Université Claude Bernard Lyon1

Laboratoire de Sciences de la Terre - UMR 5570

Bat Géode - R6

43 bd du 11 novembre 1918

69622 Villeurbanne cedex

tel: +33 4 72 43 27 35 (UCB) +33 4 72 72 86 97 (ENS)

fax: +33 4 72 44 85 93 (UCB) +33 4 72 72 86 77 (ENS)

Position of Associate Professor (maître de conférence) in Mineralogy at the University Paul Sabatier, Toulouse (LMTG, Observatoire Midi-Pyrénées, 14 Avenue Edouard Belin, 31400, Toulouse; see www.lmtg.obs-mip.fr)

Teaching profile:

- Mineralogy at undergraduate level,

- Methods of analysis of minerals (spectroscopic methods, interaction of electrons with materials...) at master level,

- Courses on geo-materials and industrial waste at master level.

The laboratory has a historical relationship with the Museum of Natural History of Toulouse; any experience in popularizing Mineralogy will be welcome.

Research profile:

High-temperature Mineralogy. The area of research will be focused on the study of high-temperature processes in minerals. We are looking for a person able to strongly interact with other members of the research group and with a background that will complement the areas of research already developed in mineralogy at the LMTG: atomic diffusion, isotopic fractionation at the scale of the mineral, irradiation defects in minerals, mineral synthesis, high temperature deformation.

The procedure to apply for an associate Professor Position in France is as follows:

Selection of candidates is a two-step process:

1) To be considered for this position, the candidate must be qualified by the French Ministry of Education and Research. This qualification process is an administrative formality and the procedure is straightforward but it must be done in order to be eligible. The application information is available at: <http://tinyurl.com/34l8f3>

go to "démarrer" click on Antares (qualification), then follow the steps to fill the form.

The deadline for application for this qualification step is Oct. 14, 2008.

2) A University committee will be set up in April/May 2009 to evaluate and select the candidate, based on curriculum vitae, a statement of research and teaching interests, and interview.

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This is a permanent research and teaching position, starting in September 2009. For a general description of recruitment see <http://www.education.gouv.fr/cid1056/maitre-de-conference.html>. Health care and pension program are included in the salary. For further information, we encourage potential candidates to contact Dr. Jannick Ingrin (ingrin@lmtg.obs-mip.fr) **as soon as possible**.

The Saskatchewan Isotope Laboratory, University of Saskatchewan, Canada, seeks a full-time isotope technician/analyst, with primary duties on stable isotope instruments, and secondary duties providing technical and operational support on thermal ionisation and plasma multicollector instruments. Experience in gas source mass spectrometry is desirable. Cross-training on the solid source and plasma source instruments will be provided on-the-job, if necessary. The laboratory has 4 gas source mass spectrometers with peripherals including EA, TC/EA and Kiel IV, in addition to two thermal ionization instruments (one a Triton), a multi-collector plasma Neptune, and a trace metal clean lab. Activities of the Laboratory are inherently multidisciplinary.

Duties include the preparation of a wide variety of samples for stable isotope analysis of H, C, N, O and S; performing analyses of samples on mass spectrometers; operation of robotic microsampling devices; troubleshooting and maintenance of equipment; QA/QC; purchase ordering; communication with clients and invoicing; and training. The incumbent will work together with researchers, staff and students to develop new protocols as necessary and to implement quality control of all data produced by the isotope activities of the facility, in particular, the stable isotopes.

The successful candidate will have a technical diploma or degree in chemistry or the earth sciences, will work under the supervision of a laboratory manager and will assist in the training of students and visitors. Good communication and people skills are essential so as to guide the analytical activities of diverse users.

Previous experience in an established research laboratory with demonstrated knowledge of lab safety regulations and procedures, general lab safety, WHMIS training, weighing and gas ratio mass spectrometry is desirable. Careful, neat work behaviour, ability to work well under pressure, to face multiple deadlines and interruptions and to manage time and resources effectively are essential. Computer competency in MS Office (Word, Excel) is required. The position is full-time and, although initially a 12-month contract, it is renewable annually. Salary will be commensurate with experience.

Please send cover letter and CV to: Dr William Patterson (email bill.patterson@usask.ca) Saskatchewan Isotope Laboratory

Applicants with questions regarding this position may call or email:

Dr. Chris Holmden (email chris.holmden@usask.ca) or
Dr. Bruce Eglington (email : bruce.eglington@usask.ca)

Further information on the activities of the Saskatchewan Isotope Laboratory may be obtained from any of the above individuals and from the Laboratory's web site (<http://sil.usask.ca>).

We have a position open in the Department of Geosciences, University of Arkansas-Fayetteville for an assistant professor with emphasis in structural geology and tectonics beginning in the fall 2009. We would appreciate it if you would post the attached position notice. If you know of someone who is qualified please encourage them to apply. If they have questions about the position I would encourage them to contact Dr. Glen Mattioli, Search Committee Chair.

TENURE-TRACK POSITION IN SEISMOLOGY

Geophysical Institute, Geology & Geophysics Department
University of Alaska Fairbanks

Applications are invited for a tenure-track faculty position in seismology at the University of Alaska Fairbanks. We are looking to hire a seismologist who will complement our existing strengths in seismology, with expertise in one or more of the following fields: seismotectonics, earthquake source mechanics, or wave propagation and earth structure, with components of observational seismology in his/her area of interest. This position is a joint appointment between the Department of Geology and Geophysics and the Geophysical Institute. The successful candidate must be capable of maintaining a strong, externally funded research program, and demonstrate an ability to teach graduate and undergraduate level courses in seismology and/or geophysics. The appointment will be made at a level appropriate to the experience of the successful candidate.

Applicants must hold a Ph.D. degree in Geosciences or a related physical science field at the time of appointment. For application materials, please apply online at www.uakjobs.com. You may access this position directly by using the quick link; www.uakjobs.com/applicants/Central?quickFind=63890. In addition to UA Applicant Forms you will need to submit a letter of application, curriculum vitae, and names and contact information of 3 professional references, statement of professional goals, including research interests

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and experience. If you have any questions regarding this position, please contact Dr. Douglas Christensen (search committee chair), Geophysical Institute, University of Alaska Fairbanks, Tel: (907) 474-7426 or e-mail: doug@giseis.alaska.edu. For application concerns contact Farra Smith, (907) 474-6010.

Screening of applications for this position will begin October 10, 2008 and continue until this position is filled. For detailed information about the Department of Geology and Geophysics and the Geophysical Institute, applicants are encouraged to visit our web pages (www.uaf.edu/geology/ and www.gi.alaska.edu).

The University of Alaska Fairbanks campus has approximately 6,000 students, and is located in Fairbanks. With a local population of more than 80,000, Fairbanks offers the sophistication of medium-sized cities while maintaining the atmosphere of smaller, more personal towns. The Geophysical Institute is one of several research institutes on campus which employs about 50 faculty with expertise in everything from Space Physics to Tectonics. Within the Geophysical Institute, the Alaska Earthquake Information Center (AEIC) records nearly 500 seismic stations located throughout the region, and locates up to 20,000 earthquakes in Alaska each year. The Alaska Volcano Observatory (AVO) is another major program within the Geophysical Institute and the Arctic Region Super Computer Center (ARSC) is located nearby. These diverse intellectual and data resources offer many opportunities for collaboration within and between disciplines. The University of Alaska Fairbanks is an Equal Opportunity/Affirmative Action Employer

Applications are invited for a scientist to work within the Bloomsbury Environmental Isotope Facility (BEIF), a joint research facility of the Departments of Earth Sciences, Geography and Chemistry, University College London. The successful candidate will undertake and publish their own isotope-based research, where appropriate in collaboration with other laboratory users, and will to act as laboratory manager for the facility. It is expected that the postholder's research profile will render them suitable for inclusion in the RAE or its successor, the REF. An experienced candidate with a BA/BSc and PhD in any appropriate branch of science, plus practical laboratory experience including using isotope ratio mass spectrometers, is sought. The candidate must have a proven track record in research involving the application of stable isotopes in the Earth and/or Environmental Sciences and the ability to attract research funding.

The post-holder will also be expected to manage the daily running of the laboratory, in collaboration with technical staff, to help in sample preparation and undertake stable-isotope measurements and data reduction, to aid in the training of staff in stable-isotope mass spectrometry techniques, and to undertake their own research.

Funding for the post is available for 5 years, with a starting date of 1 December or as soon as possible thereafter. The appointment will be made on UCL's grade 8: £34,793 - £41,545 p.a. (depending on the applicant's qualifications and experience) plus £2,649 p.a. London Allowance. Informal inquiries can be made to Professor Jonathan Holmes (email j.holmes@ucl.ac.uk). Application forms can be downloaded from http://www.ucl.ac.uk/hr/docs/download_forms/job_app.doc. Further information can be found at <http://www.ecrc.ucl.ac.uk/content/view/413/38/>. Applications, including a covering letter, completed UCL application form, detailed CV, list of publications and the name and addresses of 3 referees, should be sent to Leisa Clemente, Dept. Earth Sciences, UCL, Gower Street, London, WC1E 6BT by post.

UCL taking action for equality.
The closing date for applications is 10th October 2008

JOIN KINROSS GOLD!

Grads can apply for the Generation Gold Program and gain valuable experience and training w/ attractive compensation and benefits. Summer internships are available for undergrads. Additional information available in the department office. Interested students should contact generationgold2008@kinross.com and request information well in advance of the Nov. 5 application deadline.

We do have 6 jobs to offer at the GFZ German Research Centre for Geosciences within a national wide project dealing with CO2 storage and we would like you to apply or distribute this offer further. The joint research project lighthouse CLEAN CO2 Large-scale EGR in the Altmark Natural gas field is planned as a scientific program accompanying the „Enhanced Gas Recovery“ (EGR) project within the second largest natural gas field in Europe the Altmark gas field. Within the framework of the investigation, use and protection of the underground the following jobs will be filled: Research Scientist, Geophysicist or Physicist, Chemist or Geochemist, Research Scientist or Public Relation Manager, and 2 PhD positions.

Job Vacancies in the CLEAN Altmark Project

The Helmholtz Centre Potsdam GFZ German Research Centre for Geosciences is the national Research Centre for Geosciences in Germany and a member of the Helmholtz Association.

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The joint research project lighthouse CLEAN – CO₂ Largescale EGR in the Altmark Natural gas field is planned as a scientific program accompanying the „Enhanced Gas Recovery“ (EGR) project within the second largest natural gas field in Europe – the Altmark gas field. Furthermore, this project will be a major step forward towards large-scale onshore storage of CO₂ and to support in that way the definition of national and international standards. Within the framework of the investigation, use and protection of the underground the following positions will be filled: The Section 5.1 "Environmental Geotechnique" in Department 5 "Geoengineering" invites applications for a position as **Research Scientist** to support the project coordinator to implement and document this national joint project in cooperation with 16 institutions from industry and academia.

Tasks:

Beside project management own scientific work with the focus on integrated monitoring concepts is expected. In the context of the project reports, scientific presentations and publications need to be delivered.

Qualifications:

- Master in geology, geophysics, physics, chemistry, biology or engineering and PhD.
- Experience in the implementation and coordination of scientific projects.
- Experience in the field of resources management, reservoir management or mining.
- Good command of English language.

Salary according to TVöD 13/14 depending on qualification. Duration of the position is initially limited until the 30.06.2011.

Contact: Prof. Dr. Frank Schilling (frank.schilling@gfz-potsdam.de) Further, the Section 5.1 "Environmental Geotechnique" in Department 5 "Geoengineering" invites

applications for a position as **Geophysicist or Physicist** for the scientific management of the seismic monitoring at the location Altmark. This project is closely linked to further projects of CO₂ storage at GFZ.

Tasks:

Project coordination of active and passive seismic monitoring (VSP/MSP and microseismic monitoring) and processing and interpretation of VSP/MSP measurements. In the context of the project reports, scientific presentations and publications need to be delivered.

Qualifications:

- PhD or equivalent and a strong background in Earth Sciences, geophysics, physics.
- Experiences in performing and interpretation of seismic measurements in particular borehole measurements like Vertical Seismic Profiling (VSP) and Moving Source Profiling (MSP).
- Computer and programming skills.
- Good command of English language.

Salary according to TVöD 13/14 depending on qualification. Duration of the position is initially limited until the 30.06.2011.

Contact: Dr. Rüdiger Giese (ruediger.giese@gfz-potsdam.de) Further, the Section 5.1 "Environmental Geotechnique" in Department 5 "Geoengineering" invites

applications for a position as **Chemist or Geochemist**

for the scientific support and development of chemical modules for computer programs applied for coupled numerical reservoir simulations.

Tasks:

Comparison of chemical modules connected to computer models for coupled simulation of deformation, fluid flow, heat transfer, transport and chemical reactions. Development of up scaling methods to transfer laboratory results to the reservoir scale. In the context of the project reports, scientific presentations and publications need to be delivered.

Qualification:

- Master in chemistry, geochemistry, geophysics, physics, engineering oder mathematics preferably with PhD.
- Experience with geochemical processes of water rock interactions.
- Experience in application of geochemical simulation programs..
- Programming skills
- Good command of English language.

Salary according to TVöD 13/14 depending on qualification. Duration of the position is initially limited until the 30.06.2011.

Contact: Dr. Michael Kühn (michael.kuehn@gfz-potsdam.de) Further, the Section 5.1 "Environmental Geotechnique" in Department 5 "Geoengineering" invites

applications for a position as **Research Scientist or Public Relation Manager** for the leadership of the information centre at the CLEAN/Altmark site.

Tasks:

The activities cover the conception and setting up of the information centre as well as the production of descriptive exhibits and brochures in close co-operation with the scientists of the entire joint project CLEAN Altmark. Co-ordination of the installation of an internet-based, virtual information platform to educate the public about the Altmark project in particular and the EGR technology and CO₂ storage in general.

Qualification:

- Master and PhD in geosciences, geoengineering or journalism preferably with relation to reservoir engineering or reservoir geophysics.
- Experience in the co-ordination of joint projects.
- Scientific experience and advanced presentation skills.
- Good command of English language.

Salary according to TVöD EG 14.

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Duration of the position is limited from 01.09.2008 to 31.08.2011. Contact: Prof. Dr. Frank Schilling (frank.schilling@gfz.potsdam.de)
The Section 5.2 "Geothermics" in Department 5 "Geoengineering" invites applications for a **PhD position (m/f)** for the development and field testing of a new thermal borehole measurement technique in order to investigate the transport behaviour of gases and fluids within the reservoir rock.

Tasks:

Design of a combined fiber-optic and electrical logging cable. Plan and perform laboratory tests and field experiments. Carry out and interpret borehole temperature measurements. Carry out coupled thermohydraulic simulations. In the context of the project reports, scientific presentations and publications need to be delivered.

Qualifications:

- Diploma or masters degree in geophysics, geology (with a strong focus on applied geosciences), or a related field
- Experience in borehole logging and heat and fluid transport
- Interest in field and laboratory work, as well as numerical simulation
- Ability to work in an interdisciplinary team.

Payment: EG 13 TVöD

Working hours: 19.5 hours/week

Duration: until 30.6.2011

Contact: Dr. Jan Henninges (jan.henninges@gfz.potsdam.de)

The Section 3.2 " Deformation and Rheology " in Department 3 "Geodynamics" invites applications for a **PhD position (m/f)** for the investigation of microseismicity induced by storage of CO₂.

Tasks:

The successful candidate is invited to perform active research on microseismicity induced during storage of CO₂. The investigation performed by him or her aims at analyzing microseismicity data acquired by a downhole seismic array. Objectives of the programme include identifying hypocenter locations of microseismic events, analysis of source characteristics and cluster analysis. Further tasks include analysing the spatiotemporal evolution of seismicity as well as determining faulting mechanisms and their inversion for the stress tensor. In the context of the project reports, scientific presentations and publications need to be delivered.

Qualifications:

- Diploma or masters degree in geophysics or physics with strong background in seismology.
- Experience in the analysis of fully digitized waveforms.
- Programming skills for processing of seismological data desirable (preferably C, MATLAB).
- Willingness to participate in geophysical field campaigns and to work in an interdisciplinary team.

Payment: EG 13 TVöD

Start: 2009-01-01

Duration: 2 years (with the option of a one year extension)

Working hours: 19.5 hours/week

Contact: Prof. Dr. Dresen (dre@gfz.potsdam.de) or PD Dr. Bohnhoff (bohnhoff@gfz.potsdam.de)

The Department of Geosciences at Denison University invites applications from candidates with a background in mineralogy, petrology and high-temperature geochemistry for a tenure-track position (assistant professor) to begin in Fall 2009. We seek a broadly trained scientist to teach

Physical Geology, Earth Materials, Igneous/Metamorphic Petrology and other courses that complement our program. The ideal candidate should be committed to teaching excellence in a liberal arts setting, have a strong field background, have broad interests beyond their specialty, and be able to provide a balance of classroom, field and laboratory experiences for our students.

A Ph.D. at the time of appointment is required. Denison is a highly selective liberal arts college strongly committed to, and supportive of, excellence in teaching and active faculty research that involves undergraduate students.

All application materials will be handled electronically at <https://employment.denison.edu>.

Please include a letter of application; statements of your approaches to teaching and research in a liberal arts setting; a vita; academic transcripts; and contact information for three references.

Please contact Dr. Tod Frolking, Department of Geosciences, Denison University, Granville, OH 43023; (740) 587-6217;

frolking@denison.edu for more information about the position. Application materials should be posted by October 15, 2008 for full consideration. We

encourage early applications, we would like to meet with candidates attending GSA, October 6- 8, and invite finalists to campus in early November. Denison University is an Affirmative Action, Equal Opportunity Employer. In a continuing effort to diversify our Campus Community, we strongly encourage women and people of color to apply.

The Department of Geology at the University of South Florida seeks a Visiting Assistant Professor in Geochemistry for 2009. We particularly seek applicants who specialize in aqueous and/or environmental geochemistry, although different geochemical backgrounds and expertise will be considered. We are interested in individuals who incorporate field and laboratory experience in their present research and can integrate this knowledge into both graduate and undergraduate classes. Although the focus of the position is on teaching courses in aqueous geochemistry, we anticipate that the successful applicant will continue to pursue their research as well as interact with existing faculty members. Analytical

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facilities in Geology include, but are not limited to, an ICP-OES, AFS and a newly established ICPMS and IRMS laboratory with a full-time research technician. A PhD at the time of employment is preferred; we anticipate searching for a tenure-earning position in this discipline during 2009-2010, pending budgetary approval.

To apply, send a letter of interest, curriculum vita, statements of teaching and research goals, as well as the names and e-mail addresses of three referees to: Peter J. Harries, Search Chair, Department of Geology, University of South Florida, 4202 E. Fowler Ave., SCA 528, Tampa, FL 33620-5201. Applications will be accepted through November 10, 2008. For additional information, contact Peter Harries (harries@cas.usf.edu) or visit www.cas.usf.edu/geology. USF is an AA/EEO institution. Women and minorities are strongly encouraged..

THE UNIVERSITY OF WESTERN AUSTRALIA-LECTURER (REF: 2519)
METAMORPHIC PETROLOGY/GEOCHEMISTRY
SCHOOL OF EARTH AND GEOGRAPHICAL SCIENCES
5 year appointment with further employment dependent on funding and progress
Salary range: Level B \$71,957 - \$85,450 p.a.
Closing date: Friday, 17 October 2008.

The School of Earth and Geographical Sciences is seeking a highly motivated geoscientist in the areas of metamorphic petrology and geochemistry. The School emphasises an integrated global perspective on issues posed by the earth and its environment and has an international reputation for research and teaching in geology and geophysics, geography and soil science.

The successful candidate will be expected to conduct research at the highest level, lead field excursions, attract research students, apply for external research funds, contribute substantially to undergraduate and postgraduate teaching, and to supervise Honours, MSc and PhD students. Applicants must have a doctoral qualification or equivalent scholarly attainment in Geoscience and the strong motivation to deliver both high level fundamental and applied research. The candidate is expected to work effectively in a team environment within the School and its numerous research centers. Candidates are expected to provide a strong and innovative teaching portfolio in metamorphic petrology and geochemistry and the propensity to increase the level of Honours and PhD studies the fields of metamorphic petrology, geochemistry and geochemical modeling.

For further information regarding the position please contact the Head of School, Professor Peter Cawood on +61 8 6488 3422 or email peter.cawood@uwa.edu.au. Additional information on the School of Earth and Geographical Sciences can be obtained from the website <http://www.segs.uwa.edu.au/>.

Benefits include generous superannuation and leave provisions and fares to Perth (if applicable) for appointee and dependants along with a removal allowance. These and other benefits will be specified in the offer of employment.

APPLICATION DETAILS: The position description follows. Written applications quoting the reference number, personal contact details, qualifications and experience, along with contact details of three referees should be sent to Director, Human Resources, The University of Western Australia, M350, 35 Stirling Highway, Crawley WA 6009 or emailed to jobs@uwa.edu.au by the closing date.

The Department of Geology & Geophysics at Louisiana State University invites applications for two tenure-track Assistant Professor positions to begin Fall semester 2009.

Geochemistry: We seek geochemists who work on fundamental processes and mechanisms, and the evolution of isotopic and geochemical systems. Analytical approaches include, but not limited to , non-traditional stable isotope systems, innovative mass spectrometric techniques, or

radioisotopic chronometry. Geochemists whose research programs may utilize our Class 100/1000 ultraclean laboratory and/or wet-chemistry/stable-isotope (TIMS) facilities are encouraged to apply.

Sedimentary Geology: We are looking for a sedimentary geologist who studies sedimentary processes and the evolution of sedimentary systems. Research may include modern and/or ancient examples. The successful candidate will be expected to teach and undergraduate course in

sedimentation and depositional environments. Applicants whose research program can utilize our Landmark/Petrel laboratory, geoprobe, and/or microscopy laboratory are encouraged to apply.

Two interrelated focus areas: "Evolution of Sedimentary Systems" and "Earth Materials and Solid Earth Processes" have been developed within the LSU Department of Geology and Geophysics to enhance existing strengths of the Department and allow the Department to interface synergistically with other academic units at LSU. See www.geol.lsu.edu for more information regarding these focus areas, faculty, facilities, and research programs.

The successful applicant must have a Ph.D. at the time of appointment and postdoctoral experience is preferred. The new faculty members are expected to contribute to our undergraduate and graduate teaching programs, and develop courses in their areas of specialization.

Development of a strong research program, including supervision of graduate student research, active publication in highly ranked journals,

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and the generation of external funding, is required. Interaction with other faculty within the Department and across the University is strongly encouraged.

Interested persons should send a copy of their vita, a statement of their research and teaching interests, and the names, postal and e-mail addresses, and phone numbers of at least three references to: Faculty Search Committee, Department of Geology and Geophysics, Louisiana State University, Ref. Log ##### (Geochemistry) or Ref. Log ##### (Sedimentary Geology), Baton Rouge, LA 70803. The review process will begin November 1, 2008. The search will continue until a suitable candidate is found.

LSU is the Flagship University of Louisiana, a public and comprehensive institution serving the State and the entire nation with an enrollment of approximately 30,000 students. LSU is ranked in the top tier for "Best National Universities" in the U.S. News & World Report's 2009 edition of

America's Best Colleges. LSU places a strong emphasis on nationally recognized research competitiveness as outlined in its "National Flagship Agenda" (www.lsu.edu/flagship).

NOTE: Representatives of the Department will be present at the 2008 GSA Annual Meeting in Houston and AGU Fall Meeting at San Francisco.

~ ~ ~ ~ ~ ~ ~ ~ **HAVE A GREAT WEEKEND!** ~ ~ ~ ~ ~ ~ ~ ~