

# GEOBULLETIN

DEC 11<sup>TH</sup>, 2009

GeoBulletin is distributed weekly, by E-mail. Contributions are requested! If you have a news item, a request, an announcement etc. email it to [geodept@geology.wisc.edu](mailto:geodept@geology.wisc.edu) or leave it at the office, Room 236 by noon on Monday.

## Weeks Lecture

Dec 11<sup>th</sup>: No Weeks Lecture Scheduled.

## JOB OPENINGS

- PhD Opportunities in Carbon Sequestration Research at University of Miami
- Postdoctoral fellowship in seismology at the University of Washington
- Postdoctoral Fellowship in Seismology and Tectonics, Victoria University of Wellington
- The Hydrogeologist position is located at the Kansas Geological Survey, University of Kansas, Lawrence
- \*Seismologist\* Geophysical Institute - University Of Alaska Fairbanks
- Mineralogy technician Royal Ontario Museum
- Associate Professor in Igneous Petrology
- Assistant Professor - WGNHS – Geologist with Emphasis in Clastic Process Sedimentology and Stratigraphy
- The University of Nevada, Reno, Department of Geological Sciences and Engineering is searching for a full-time, tenure-track Assistant Professor in the Geosciences.
- Tenure-Track Faculty Position -Sedimentary Geology/Sedimentation and Tectonics/Basin Analysis, University of Kentucky
- USGS has just put out a vacancy announcement for a senior research geologist to lead the USGS geologic carbon dioxide sequestration assessment.
- Two tenure-track faculty positions at Michigan Technological University.
- Green Scholar Positions In Geophysics At Igpp, Scripps Institution Of Oceanography, UCSD
- John W. Miles Fellowship In Theoretical And Computational Geophysics At Igpp, Scripps Institution Of Oceanography, UCSD
- Postdoc available with the Berkeley Nanogeoscience Center
- Post-Doctoral Research Fellow in Geologic Sequestration Risk Policy, Humphrey Institute of Public Policy, University of Minnesota
- Full-time Job Opportunity Fort Lauderdale, Florida -Graduating Masters/PhD Candidate

## JOB OPENING

### PhD Opportunities in Carbon Sequestration Research at University of Miami

The Division of Marine Geology and Geophysics (MGG) at the Rosenstiel School of Marine and Atmospheric Science (RSMAS), University of Miami, Florida, has initiated a major research program in carbon sequestration. One aspect of this work involves monitoring the fate of CO<sub>2</sub> pumped into natural reservoirs using a combination of InSAR and GPS, seismology and geochemistry. This project is funded by the Department of Energy (DOE). We invite applications for graduate students leading to the PhD degree. We anticipate up to five opening with specific research areas include Geochemistry, Seismology, and Space Geodesy. For more information on RSMAS and our research activities, please visit <http://www.rsmas.miami.edu/> and <http://www.geodesy.miami.edu>. Starting date is Spring 2010 or Fall 2010. For formal application procedures please visit the RSMAS Graduate Studies website. International applicants are encouraged to take the GRE and TOEFL tests at their earliest convenience. Applications from students with a MSc. and research interests in both geodesy and seismology are particularly welcome. Review of applications will start in early

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2010 and continue until the positions are filled. For more information please contact Professors Tim Dixon (tdixon@rsmas.miami.edu), Guoqing Lin (glin@rsmas.miami.edu), Falk Amelung (famelung@rsmas.miami.edu), or Peter Swart (pswart@rsmas.miami.edu).

**Postdoctoral fellowship in seismology at the University of Washington**

Applications are invited for a postdoctoral fellowship in the Department of Earth and Space Sciences at the University of Washington to study non-volcanic tremor and slow slip. The position is associated with the Array of Arrays Earthscope project for which seismic data is being recorded from the 8 arrays of 20 stations on the Olympic Peninsula, Washington. The postdoctoral fellow will help with field work and will analyze these and other seismic and geodetic data to reveal, with unprecedented resolution, the space-time history of tremor episodes and possibly the structure in the vicinity of these sources. Candidates should have a background in seismology.

Application review will begin January 1, 2010, and will continue until the position is filled. Candidates are encouraged to apply as soon as possible. Ph.D. required by date of appointment. Please apply by sending (by post or email) a cover letter briefly summarizing your research interests and fit for the position along with a CV, publication list, and contact information for three professional references.

Please direct all inquiries and application materials to:  
Dr. Ken Creager Department of Earth and Space Sciences Box 351310  
University of Washington Seattle, WA 98195-1310  
Email: kcc@ess.washington.edu Phone: (206) 685-2803 FAX: (206) 685-5788

The University of Washington strongly encourages applications from female and minority candidates. The University is an Equal Opportunity/ Affirmative Action employer.

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**Postdoctoral Fellowship in Seismology and Tectonics, Victoria University of Wellington**

Applications are invited for the position of Postdoctoral Fellow, Institute of Geophysics, Victoria University of Wellington. This is a two year fixed term position commencing on March 15, 2010 (or as soon as possible thereafter) and jointly funded by a New Zealand government grant and the New Zealand Earthquake Commission (EQC).

The objectives of this study are to participate in seismological experiment to image the subducted plate boundary interface in the southern North Island of New Zealand. The field program has elements of passive and active seismology in it, including the use of a ship to shoot onshore-offshore data. This is part of a national (GNS science and Victoria University of Wellington) and international experiment with contributions from Japan and the USA. A central goal of the research programme is to learn about the seismogenic processes on the subduction thrust beneath the city of Wellington.

The appointee will ideally have experience in active or passive seismology methods and have an interest in solving tectonics problems.

The fellow will be working with a team of students and researchers in studying the plate boundary structure beneath Wellington. Applicants must have completed a PhD or expect to do so by 1 March 2010.

For more information contact Professor Tim Stern, School of Geography, Environment, and Earth Sciences, Victoria University of Wellington, PO Box 600, Wellington, New Zealand, tim.stern@vuw.ac.nz.  
Applications close 22 February 2009. Please apply online at <http://vacancies.vuw.ac.nz/>

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**The Hydrogeologist position vacancy announcement in the link below in a prominent location. The position is located at the Kansas Geological Survey, University of Kansas, Lawrence, and will range from a Research Associate to a faculty-equivalent rank of Assistant or Associate Scientist. Rank will be determined by education and experience. If you know of any qualified candidates who may be interested and qualified for the position, please encourage them to apply. We welcome applications from women and minorities.**

The position is open until filled with first consideration given to application material received online by January 8, 2010. It is anticipated the position will be available on or about April 1, 2010, the exact starting date is negotiable. The University of Kansas is an Equal Opportunity/Affirmative Action employer. For more information about the Kansas Geological Survey, please visit our web site at <http://www.kgs.ku.edu>.

Position Announcement: <http://www.kgs.ku.edu/General/jobs/K8386.html>

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**\*SEISMOLOGIST\* -GEOPHYSICAL INSTITUTE - UNIVERSITY OF ALASKA FAIRBANKS**

LOCATION: Geophysical Institute, Seismology  
JOB TITLE: Research Professional 3  
QUICKLINK: [www.uakjobs.com/applicants/Central?quickFind=69015](http://www.uakjobs.com/applicants/Central?quickFind=69015)  
EMPLOYMENT STATUS: Full-time, Regular, Exempt  
CLOSING DATE: Open Until Filled  
PCN: 924016  
REVIEW DATE: January 4, 2010

Applications are invited for a Staff Research 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. The successful candidate must be capable of participating in the near-real-time operation of the AEIC activities, and collaborative research efforts focusing on Alaska's tectonics, seismicity, structure, and related topics.

**\*Typical Duties:**

- Organize and maintain data-flow, files and algorithms for ShakeMap operations within AEIC real-time data processing system.
- Contribute to maintenance of the real-time data processing system, including trouble shooting data flow problems.
- Code development on Sun/Solaris computer systems for real-time and off-line earthquake data processing.
- Coordinate with other staff seismologists daily lab operations pertaining to processing, analysis, and archiving of earthquake data.
- Contributions required for the development, organization, and regular publication of Alaska earthquake reports and catalogs. This includes quality control, finalizing and archiving of current data.
- Strong understanding of digital seismograph systems as necessary for proposing and integrating new seismic stations into the existing systems.
- Conduct research on selected seismological topics, both descriptive and analytical. Publish papers and articles on this research in scientific periodicals and refereed journals. It will include both independent and cooperative studies focusing on Alaska's tectonics, seismicity, structure, and related topics.
- Responsible for immediate action in the event of a seismic crisis, coordinating 24 hour seismic monitoring with fast, accurate analysis of data so that hazard assessment and decisions regarding public safety may be made by emergency agencies.
- Interact with the public, news media, and/or public safety agencies as a spokesperson for the Geophysical Institute seismology lab as requested by the State Seismologist. This will include writing and distributing information releases as needed, radio and TV interviews regarding ongoing, recent, or past seismic and volcanic behavior.

**\*Minimum Qualifications\*:**

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- Requires at least a Masters Degree in Geophysics/Seismology with extensive experience (Ph.D. preferred) or equivalent.
  - Must possess a strong seismological background as well as strong seismology training, both theoretical and observational.
  - Relational database management experience preferably with Datascope.
  - Experience operating and developing near-real-time seismic data processing systems using the Antelope Environmental Monitoring system.
  - Experience with moment tensor inversion techniques, and seismic array processing techniques is highly desirable.
  - Experience in regional earthquake seismology preferably in Alaska.
  - Must be familiar with SOLARIS/UNIX operating systems on Sun computers and multi-threaded programming and languages including C, Fortran, Perl, Tel/Tk, and Java.
  - Strong written and oral communication skills.
  - Ability to think calmly and clearly in a crisis situation.
  - Physically capable of performing fieldwork studies at remote locations, to include; walking, lifting, and outdoor survival in possibly unfavorable conditions.
- \*\*The successful candidate of this position will be placed at a level appropriate for their education and experience. This position is part of a career development plan and that will provide an avenue for increasing the position's scope, complexity, and degree of independence as the incumbent's experience and skills increase.

For a complete job description and applicant instructions, please apply online [twwww.uakjobs.com](http://twwww.uakjobs.com). If you have questions concerning the position please contact Roger Hansen (907) 474-5533 or e-mail: [roger@giseis.alaska.edu](mailto:roger@giseis.alaska.edu). If you have any questions regarding applying, please contact Nicole Scholle, HR Technician, Geophysical Institute, University of Alaska Fairbanks, (907) 474-6010 or e-mail: [nscholle@gi.alaska.edu](mailto:nscholle@gi.alaska.edu).

\*The Geophysical Institute Human Resource Office is located at 903 Koyukuk Drive, Room 611 Fairbanks, AK 99775. Office hours are 8:00 am to 5:00 pm Monday through Friday. The University of Alaska Fairbanks is an Equal Opportunity/Affirmative Action Employer. \*

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**Mineralogy technician Royal Ontario Museum --Natural History(full-time)**

Reporting to the Associate Curator, Mineralogy, you will be responsible for the development, operation and maintenance of the Scanning Electron Microprobe and the x-ray fluorescence spectrometer (XRF), with some responsibility for the x-ray diffraction (XRD) laboratory. The technician also acts as the Mineralogy and Geology section's health and safety liaison, responsible for chemical inventory and MSDS requirements.

**QUALIFICATIONS:**

- \* Bachelor of Science degree
- \* At least five (5) years directly related mineralogical experience OR an acceptable equivalent in education and experience
- \* Demonstrated knowledge of theory and practice in microscopy, x-ray fluorescence and diffraction
- \* Comprehensive knowledge of minerals, mineral identification and specimen handling required
- \* General knowledge of inorganic analytical and crystal chemistry, high vacuum technology etc. related to thermal analysis and mass spectrometry
- \* Judgement, initiative and good communication skills
- \* Manual dexterity, mechanical aptitude and precision required

SALARY RANGE: \$47,961 - \$54,813 Grade: 11

PROBATIONARY PERIOD: 6 months worked

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APPLY IN WRITING TO: Royal Ontario Museum, 100 Queen's Park, Toronto, Ontario M5S 2C6. Attention: Mara Gunner, Human Resources Coordinator, FAX # (416) 586-5827. Prior to 5:00 p.m. on December 4th, 2009.

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**Associate Professor in Igneous Petrology**

The Department of Earth Sciences invites applications for a tenured position at the associate professor level, starting March 1, 2010. We seek a highly motivated hard-rock geologist, whose main field is the petrology and geochemistry of igneous systems, preferably including interests in economic geology and ore genesis.

The candidate must have a strong research record and is expected to establish externally funded research activities. The position includes overall responsibility for electron microprobe and X-ray fluorescence laboratories. Teaching obligations include undergraduate and graduate courses and supervision of B.Sc., M.Sc. and Ph.D. students. To be considered at the associate professor level, the candidate must have at least three years postdoc experience. Exceptional applicants with a recent Ph.D. degree may also be considered at the assistant professor level. Background information is available at [www.geo.au.dk](http://www.geo.au.dk) and from associate professor C. Tegner, phone +45 8942 9456, email: [christian.tegner@geo.au.dk](mailto:christian.tegner@geo.au.dk)

All interested are urged to apply irrespective of personal background.

**Deadline**

All applications must be made online and received by: 17/12/2009

**About Aarhus University**

Aarhus University offers a good and inspiring education and research environment for 35,000 students and 8,500 members of staff, who produce academic results of a high international standard. The budgeted turnover for 2009 amounts to EUR 700 million. The university's strategy and development contract are available at [www.au.dk](http://www.au.dk).

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**Assistant Professor - WGNHS – Geologist with Emphasis in Clastic Process Sedimentology and Stratigraphy**

**Office Location:** Wisconsin Geological and Natural History Survey (WGNHS), 3817 Mineral Point Road, Madison, WI 53705

**Type of Appointment:**

This is a tenure-track faculty position. The tenure home of this permanent scientific staff position is the Department of Environmental Sciences, University of Wisconsin-Extension. The position is available beginning July 1, 2010. The position is eligible for benefits provided to state of Wisconsin employees and is subject to UW-Extension personnel policies.

**Purpose and Primary Focus of Position:**

This position will focus on sedimentary processes. The Geologist conducts fundamental and applied research in areas relating to clastic sedimentary processes through field-based investigations including but not limited to geologic mapping, clastic sedimentology, and issues relating to the stratigraphic and hydrostratigraphic framework of the Quaternary and/or Paleozoic sediments and rocks of Wisconsin. The Geologist works in cooperation with other WGNHS staff and University personnel, and collaborates with local, state, and federal agencies that have interests in geology, geophysics, hydrogeology, and mineral resources.

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As a faculty member within the Department of Environmental Sciences, the Geologist must meet institutional expectations of scholarship, show evidence of professional development and growth, make contributions to the profession, and participate in faculty governance. The candidate will take a leadership role in the outreach and educational functions of WGNHS and UW-Extension.

To get more information, please visit <http://www.uwex.edu/ces/hr/listing.cfm?PVL=C10021>.

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**The University of Nevada, Reno, Department of Geological Sciences and Engineering is searching for a full-time, tenure-track Assistant Professor in the Geosciences.** The areas of research expertise for the position are intentionally broad. We seek an outstanding geoscientist whose research and teaching strengths complement the existing department faculty. A willingness and experience to be involved with interdisciplinary earth science research is highly desirable. Experience in field-based research and ability to teach field classes is also desirable. Applicants must have been awarded a doctorate degree in a Geoscience field by the time of hire (July 1, 2010) and demonstrate the potential to establish a teaching and research program with international recognition. Excellent communication skills, established record of publication commensurate with the applicant's career stage, commitment to teaching, and ability to attract external funding are essential.

Further information about the University and Department of Geological Sciences and Engineering can be found at [www.unr.edu](http://www.unr.edu) and [www.unr.edu/cos/geology](http://www.unr.edu/cos/geology).

Applicants should submit a letter summarizing interest and qualifications; names, e-mail, postal addresses, and telephone numbers of at least three references; a complete vita; and electronic copies of up to three of your publications to the Faculty Jobs page at [jobs.unr.edu/](http://jobs.unr.edu/). Applications will close on January 15, 2010. Please DO NOT ask referees to send letters; these will be requested later in the process.

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**Tenure-Track Faculty Position -Sedimentary Geology/Sedimentation and Tectonics/Basin Analysis  
University of Kentucky**

The Department of Earth and Environmental Sciences at the University of Kentucky invites applications for a tenure-track faculty position at the Assistant Professor level in the broad field of sedimentary geology, beginning August 2010. Field- and modeling-oriented candidates working in areas such as basin analysis, tectonics and sedimentation, sedimentary petrology or geochemistry, stratigraphy, and carbon sequestration science are encouraged to apply. We are seeking candidates interested in interdisciplinary research who would interact with our existing programs in tectonics, stable-isotope geochemistry, seismology and potential field geophysics, hydrogeology, and paleontology. A broad range of opportunities, including carbon sequestration research, exists for cooperation with other academic units, the Kentucky Geological Survey, the UK Center for Applied Energy Research, and the Tracy Farmer Institute for Sustainability and the Environment. In addition to developing a rigorous, productive, externally funded research program, the new faculty member will be expected to teach courses at the introductory, major, and graduate levels. Applicants will be expected to demonstrate a track record of publication and funding; experience beyond the Ph.D. (academia or industry) is desirable. Interested applicants should submit via e-mail (merged pdf document): cover letter, curriculum vitae, brief statements of research and teaching interests, copies of relevant research publications, and contact information for at least three references to Prof. Dave Moecher ([moker@uky.edu](mailto:moker@uky.edu)), Sedimentary Search Committee Chair. We will begin review of applications on January 5, 2010; however, applications will be accepted until the position is filled. The University of Kentucky is an Affirmative Action/Equal Opportunity University that values diversity and is located in an increasingly diverse geographical region. UK is committed to becoming one of the top public institutions in the country. Women, persons with disabilities, and members of other underrepresented groups are encouraged to apply. Additional details of the Department of Earth and Environmental Sciences (faculty, research

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clusters, facilities) and University of Kentucky may be viewed at our web pages:[www.as.uky.edu/ees](http://www.as.uky.edu/ees) and [www.uky.edu](http://www.uky.edu).

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**USGS has just put out a vacancy announcement for a senior research geologist to lead the USGS geologic carbon dioxide sequestration assessment.** Funding for the assessment is in the DOI 2010 budget. The assessment is a three-year national assessment and the job is permanent. If you or anyone you know in your organization is interested in applying for the position, please follow the links below.

You can view the vacancy announcements by clicking the following links:

ER-2010-0054 DEU (Public Candidates)

<http://jobview.usajobs.gov/GetJob.aspx?JobID=84620797&JobTitle=Research+Geologist%2c+GS-1350-15%2c+BAR-DEU&vw=d&brd=3876&ss=0&FedEmp=Y&FedPub=Y&q=ER-2010-0055&pg=1&re=0&AVSDM=2009-11-16+13%3a12%3a00>

ER-2010-0055 MP (Status Candidates)

<http://jobview.usajobs.gov/GetJob.aspx?JobID=84621586&JobTitle=Research+Geologist%2c+GS-1350-15%2c+BAR-MP&vw=d&brd=3876&ss=0&FedEmp=Y&FedPub=Y&q=ER-2010-0055&pg=1&re=0&AVSDM=2009-11-16+13%3a48%3a00>

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**Two tenure-track faculty positions at Michigan Technological University.**

The Department of Geological and Mining Engineering and Sciences (GMES) at Michigan Technological University invites applications for two tenure-track faculty positions (appointment as Assistant, Associate or Full Professor is possible) in support of programs in 1) atmospheric sciences and 2) geological engineering. Candidates must demonstrate a strong commitment to excellence in teaching and research, with the desire to strike a balance between undergraduate and graduate teaching and advising, funded research, scholarly activity, and service. Descriptions of the two positions are given below.

Atmospheric sciences. Atmospheric science activities within the GMES department and Michigan Tech are undergoing major growth, with recent hires in the fields of chemical-transport modeling, remote sensing, aerosol chemistry and climate modeling, complementing existing strengths in volcanology and cloud physics. We are particularly interested in candidates with a strong background in atmospheric chemistry and research interests/programs that include field measurements. The successful applicant will contribute to Michigan Tech's interdepartmental research and teaching program in Atmospheric Science ([www.atmos-sci.mtu.edu](http://www.atmos-sci.mtu.edu)). Informal inquiries may be directed to Dr. Simon Carn ([scarn@mtu.edu](mailto:scarn@mtu.edu)).

Geological engineering. The geological engineering program is an integral part of our research and educational activities in natural hazards and natural resources (mineral, hydrocarbon, and water resources). We are interested in candidates who can enhance these programs and who possess technical strengths in geological engineering, hydrology, mining engineering, remote sensing, or related areas. While candidates need not have engineering degrees, they must possess experience and training that would permit licensure as a professional engineer. Dr. Greg Waite ([gpwaite@mtu.edu](mailto:gpwaite@mtu.edu)) may be contacted with questions.

Only electronic applications will be accepted, preferably as a single PDF file that includes a detailed CV and statements of research and teaching interests along with a cover letter. Atmospheric science applications should be emailed to [atmossearch@mtu.edu](mailto:atmossearch@mtu.edu). Applications for the geological engineering position should be emailed to [geoengsearch@mtu.edu](mailto:geoengsearch@mtu.edu). In addition, candidates should arrange for three letters of reference to be sent to the same address. Applications will be considered until the positions are filled.

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Michigan Tech has a total student population of about 7000 and is located in Michigan's Upper Peninsula, a pristine area on the south shore of Lake Superior. The department is committed to a strong educational focus and values basic and applied interdisciplinary research. Undergraduate and graduate programs are offered in Atmospheric Sciences, Geology, Geological Engineering and Geophysics. Interested candidates can learn more about the department faculty, research, and educational programs at [www.geo.mtu.edu](http://www.geo.mtu.edu).

In addition to the present search, a two-year university-wide search to fill up to ten positions in each of the areas "Next-Generation Energy Systems" and "Health: Basic Sciences, Technologies, and Medical Informatics" is underway. Qualified candidates are encouraged to send a separate application, following the "How to Apply" guidelines at [www.mtu.edu/sfhi](http://www.mtu.edu/sfhi).

Michigan Tech is an ADVANCE institution, one of a limited number of universities in receipt of NSF funds in support of our commitment to increase diversity and the participation and advancement of women in STEM, and an Equal Opportunity Educational Institution/Equal Opportunity Employer.

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**Green Scholar Positions In Geophysics At Igpp, Scripps Institution Of Oceanography, UCSD**

The Institute of Geophysics and Planetary Physics (IGPP) at Scripps Institution of Oceanography has openings for one or more postdoctoral scientists as Green Scholars. Joint funding from the Green Foundation for Earth Sciences and extramural sources associated with specific projects are available to support postdoctoral positions in a broad range of research areas in geophysics. Information about current areas of research at IGPP can be found in the IGPP Annual report at:

<http://www.igpp.ucsd.edu/IGPP-2009AnnualRpt.pdf>

The positions are available for one year and are renewable subject to satisfactory performance and availability of funds. Applicants should send a statement of research interests, a curriculum vitae, a bibliography, the names of at least two references, and the expected PhD completion date to:

Green Scholar Selection Committee  
Institute of Geophysics and Planetary Physics  
Scripps Institution of Oceanography  
University of California, San Diego  
La Jolla, CA 92093-0225

Review of applications will begin on January 4, 2010. The University of California is an equal opportunity/affirmative action employer.

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**John W. Miles Fellowship In Theoretical And Computational Geophysics At Igpp, Scripps Institution Of Oceanography, UCSD**

The Institute of Geophysics and Planetary Physics (IGPP) at Scripps Institution of Oceanography announces a fellowship in honor of the late John W. Miles. Funding from the Green Foundation for Earth Sciences is available to support fully a postdoctoral position in the broad areas of computational and theoretical geophysics. Information about research conducted at IGPP can be found in the IGPP Annual report at:

<http://www.igpp.ucsd.edu/IGPP-2009AnnualRpt.pdf>

The position is available for one year and is renewable subject to satisfactory performance and availability of funds. Applicants should send a statement of research interests, a curriculum vitae, a bibliography, the names of at least two

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references, and the expected PhD completion date to:

Green Scholar Selection Committee: Miles Fellowship  
Institute of Geophysics and Planetary Physics  
Scripps Institution of Oceanography  
University of California, San Diego  
La Jolla, CA 92093-0225

Review of applications will begin on January 4, 2010. The University of California is an equal opportunity/affirmative action employer.

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**Postdoc available with the Berkeley Nanogeoscience Center - November 19, 2009**

We have an opening for a postdoctoral scientist with a focus in x-ray scattering and nanoscience. The specific area of investigation is the formation of acid mine drainage (AMD) nanoprecipitates, and the manner in which these may collect and transport metals such as Cu and Zn. The research involves synchrotron-based experimentation at the ALS, APS and possibly at SSRL, and seeks to understand both the nanoparticle structures and the kinetics of formation/transformation with time. As a position associated with the Berkeley Nanogeoscience Center, the scientist also will have opportunities to be involved with several other cutting-edge investigations that are ongoing in the center. The postdoc position is for two years with the possible extension to another year as funding permits, and will be based at UC Berkeley (Earth and Planetary Sciences Department) and at Lawrence Berkeley National Laboratory (Earth Sciences Division, Geochemistry Department). Non US citizens should have the appropriate visa for work in the USA, or be able to apply for this before accepting the position.

For more information about the AMD project, the Berkeley Nanogeoscience Center, and for more general questions about the postdoc please contact Dr. Glenn Waychunas at LBNL ([gawaychunas@lbl.gov](mailto:gawaychunas@lbl.gov)), or Prof. Jillian Banfield at UC Berkeley ([jill@eps.berkeley.edu](mailto:jill@eps.berkeley.edu)).

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**Post-Doctoral Research Fellow in Geologic Sequestration Risk Policy, Humphrey Institute of Public Policy, University of Minnesota**

This position is part of a multidisciplinary team of scientists and engineers from the University of Minnesota, Princeton University, and Brookhaven National Laboratory on a project to assess the basin-scale risks from geologic carbon sequestration and their impact on CCS energy market competitiveness. The successful candidate will lead the part of the research to gather subsurface data and build an integrated GIS model of the Michigan Basin, examine scenarios by which CO2 leakage could cause damages to competing subsurface land uses, evaluate the costs of different operational and leakage scenarios, and coordinate with the economic modeling team to evaluate the role of CCS under various regulatory and leakage scenarios. Job will include writing reports and journal articles, making presentations at professional meetings, and mentoring graduate students. Job duties start June 2010 or earlier, as negotiated.

**Required:** Ph.D. in engineering, geosciences, or related field, with significant background in geologic sequestration of carbon dioxide, risk analysis, engineering economics, and environmental policy. Specific experience with complex GIS modeling is required, as are excellent verbal and written communication skills.

**Preferred:** Experience with economic modeling; legal and regulatory research.

Salary will be competitive and will be based on qualifications and experience.

This is a one-year position with option of renewal for up to three years based on performance and funding. For additional information, contact Melisa Pollak at [fryxx035@umn.edu](mailto:fryxx035@umn.edu)

Please apply online via the Employment System at <https://employment.umn.edu/applicants/Central?quickFind=83327>.

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Please include a CV, cover letter, and list of 3 references.

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**Full-time Job Opportunity Fort Lauderdale, Florida -Graduating Masters/PhD Candidate**

The Water Resources Division of the U.S. Geological Survey is seeking applicant who will assist project manager in selected hydrogeologic investigations of south Florida. Student should have a Master's or PhD degree in geology with 3.0 GPA or above. Duties to concentrate on aquifer characterization including Plio-Pleistocene and Eocene-Oligocene carbonate core descriptions (knowledge of carbonate sequence stratigraphy very desirable), interpretation of marine seismic geophysical data (Kingdom SMT software) and borehole geophysical data (using slim-hole tools, such as digital optical borehole image tool, full-waveform sonic tool, flow meters), hydrogeologic and hydrologic data inventory, entry, compilation and analysis. Opportunity for geomodeling with ROXAR RMS software. Potential interaction with other governmental agencies and academia. Salary commensurate with education and/or experience. Computer skills such as graphics programs and GIS desirable. Flexible hours. As a Federal agency, U.S. citizenship is required. Valid driver's license is also required.

Please email resume to: Kevin J. Cunningham, [kcunning@usgs.gov](mailto:kcunning@usgs.gov) or fax: 954-377-5901 (954-377-5913 office)

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HAVE A GREAT WEEKEND  
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