

# GEOBULLETIN

AUGUST 1<sup>ST</sup> 2014

\*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 or leave it at the office, Room 225 by Noon on Wednesday.

## WEEKS LECTURE – FALL 2014

Date	Speaker	Institution	Host
5-Sep-14	Harold Tobin	University of Wisconsin-Madison	Cardiff (F)
12-Sep-14	Brad Singer (tentative)	University of Wisconsin-Madison	Cardiff (F)
19-Sep-14			
26-Sep-14			
3-Oct-14			
10-Oct-14	Patrick Fulton	UC Santa Cruz	Tobin (F)
17-Oct-14	NONE (GSA)		
24-Oct-14	Tomochika Tokunaga	University of Tokyo	Wang/Hart
31-Oct-14	Jay Zambito	WGNHS	
7-Nov-14			
14-Nov-14	Francis Macdonald	Harvard University	Peters (F)
21-Nov-14			
5-Dec-14	Larry Band	UNC-Chapel Hill (GSA Birdsell-Dreiss Distinguished Lecturer)	
12-Dec-14	NONE (AGU)		

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## JOB OPENINGS:

- [Research Position in EEW at Caltech Seismo Lab](#)
- [Post-doctoral fellowship at Queen's University](#)
- [Postdoctoral Scholar Position in Real-time Seismology at Caltech](#)
- [Lamont-Doherty Earth Observatory invites applications for a Postdoctoral Research Scientist position in Structural Geology](#)
- [CZO post-doctoral position at the U. of Kansas](#)
- [Department of Earth Sciences at the University of Gothenburg - dynamic researcher to join the geology group](#)

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- The Earth Science Department at Rice University is looking to fill the position of Electron Probe Micro-Analyzer (EPMA) laboratory manager/ research scientist
- Post-Graduate – Geological and Environmental Sciences
- Faculty Position in Geology, Johns Hopkins University
- Geologist, Minnesota Geological Survey
- Tenure Track Faculty Position –Petrology - The Department of Geology and Environmental Earth Science at Miami University
- Tenure Track Faculty Position –Geobiology - The Department of Geology and Environmental Earth Science at Miami University
- University of Hawaii PX<sup>2</sup> Beamline Scientist at Argonne

## JOB OPENINGS:

### **Research Position in EEW at Caltech Seismo Lab**

The Caltech Seismo Lab seeks a research scientist to carry out earthquake early warning (EEW) algorithm research, and participate in continued development of the demonstration EEW earthquake monitoring system. We seek applicants who like to work in a team and to apply their seismological research and computer programming skills to develop and implement new technologies for innovative real-time earthquake data processing. This is a temporary full-time position that is eligible for full staff benefits.

You will carry out independent research to develop and improve seismic EEW algorithms, using regional seismic waveforms and parametric data and participate in deployment of both single station and finite source EEW algorithms and evaluate EEW performance to optimize system performance and improve algorithms. Additionally you will participate in writing reports, proposals, and publications and give oral reports as needed to meet project goals.

The successful candidate will have MS degree or PhD and 5 or more years of related work experience. You must have experience in analyzing seismic waveforms, computer skills such as experience in high-level programming (C, C++, or Java), and be fluent in LINUX, command-line scripting and have some experience with web-applications. Requires ability to develop and implement EEW algorithms using tools such as Matlab.

To apply to this outstanding opportunity please apply on line at: <https://jobs.caltech.edu/postings/2061>

EOE of Minorities/Females/Protected Vets/Disability

### **Post-doctoral fellowship at Queen's University**

The Department of Geological Sciences and Geological Engineering of Queen's University, one of Canada's premier earth-science departments, invites applications for its William E. White Postdoctoral Scholarship, created from a fund endowed by the estate of William E. White. The award will be made for one year and may be renewed for a second year. The annual stipend will be no less than \$60,000. The William E. White Postdoctoral Scholarship will be awarded to an outstanding scientist who has completed a Ph.D. degree, normally within the two-year period preceding the time of the appointment. The area of research is open, but the scholar's research must be complementary to that being pursued in the Department of Geological Sciences and Geological Engineering. The research program to be

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undertaken and the level of support of research costs and moving expenses will be negotiated with a faculty member at the time the award is made. Potential applicants may obtain an outline of current research interests on the Departmental website <http://www.queensu.ca/geol/home> and are required to initiate contact with a potential faculty supervisor in advance of applying. Fit with the research interests of the Department and the research excellence of the candidate will be the primary considerations in the selection process. The Department invites applications from all qualified individuals. Queen's University is committed to employment equity and diversity in the workplace and welcomes applications from women, visible minorities, aboriginal people, persons with disabilities, and persons of any sexual orientation or gender identity.

Applicants should send a curriculum vitae, a statement of research interests, and samples of research writing to the following address. Applicants should contact their referees and arrange for at least three confidential letters of reference to be sent to the address below. Review of complete applications will begin on September 1, 2014

Professor D. Jean Hutchinson

Department Head

Department of Geological Sciences and Geological Engineering

Queen's University

Kingston, Ontario, Canada

K7L 3N6

Fax: 613-533-6592

[hutchinj@queensu.ca](mailto:hutchinj@queensu.ca) and [hyde@queensu.ca](mailto:hyde@queensu.ca)

## **Postdoctoral Scholar Position in Real-time Seismology at Caltech**

The Division of Geological and Planetary Sciences at the California Institute of Technology invites applications for a postdoctoral position in the Seismological Laboratory. Applicants with an interest in earthquake early warning (EEW) and other aspects of real-time seismology are encouraged to apply. The research goal in earthquake early warning is to analyze the first few seconds of waveforms to provide timely and robust information about a potentially damaging earthquake that is in progress. Other real-time seismology research goals include rapid finite moment tensors, and new real-time methods for earthquake locations as well as ground motion prediction.

The position will involve research in real-time seismology, including: 1) evaluating results from real-time implementations of existing EEW algorithms such as the Virtual Seismologist method; 2) developing statistical approaches to extend the algorithms to include finite rupture source characterizations; 3) applying existing strong motion records and synthetic waveforms to improve EEW analysis methods and predictions of maximum expected ground motion; and 4) various aspects of finite source seismology adapted for real-time processing.

A recent Ph.D. in seismology, earthquake engineering, or a related discipline is required. Experience in time-series analysis of broadband seismic data or strong motion data is also required. Some programming skills in languages, such as C, C++, Java, Matlab, or scripting languages, are highly desired.

The position is available now. Funding is available for one year with a possible renewal for two more years, depending on performance and availability of funding. Applications will be considered until the position is filled. For additional information, please contact Dr. Egill Hauksson, [hauksson@gps.caltech.edu](mailto:hauksson@gps.caltech.edu), or Prof. Tom Heaton, [heaton@caltech.edu](mailto:heaton@caltech.edu)

Applicants should send a CV, a brief statement of research interests and experience, and arrange to have three letters of recommendation sent electronically to Marcia Hudson at: [marcia@gps.caltech.edu](mailto:marcia@gps.caltech.edu).

Caltech is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

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**Lamont-Doherty Earth Observatory invites applications for a Postdoctoral Research Scientist position in Structural Geology.** The successful candidate will be involved in a large multidisciplinary project studying the interaction between tectonics and erosion/sedimentation from the eastern Himalayas to the Ganges-Brahmaputra delta region. A

primary focus is the 250 km wide Burma subduction-accretion foldbelt in progressive collision with the delta. Another focus is the Shillong Massif, a large basement-cored anticline overthrusting the delta. Field areas will be in Bangladesh, India and possibly Myanmar. The research will entail classic structural skills, such as field mapping, section construction, and layer-parallel strain analysis, but will also include: 1) sedimentology, such as facies interpretation and correlation, and the effects of the coarsening upward stratigraphy on structural growth; 2) familiarity with techniques in geochronology, to recognize opportunities in the field and sampling; 3) numerical modeling of deformation for combining results from other team members and thus testing overarching hypotheses.

Experience or training in one or more of the following will be considered positively: field mapping, balanced cross section construction, familiarity with the geology of the field area or Himalayan region. A Ph.D. in Structural Geology is required. The position is a one-year appointment, with the opportunity of continuation depending on progress and availability of funding. Search will stay open for 30 days after the ad appears and will continue until the job is filled. Preferred start date is November 1, 2014-January 1, 2015.

Please visit our online application site at <https://academicjobs.columbia.edu/applicants/Central?quickFind=59571> for further information about this position and to submit your application, cover letter (please include email address), curriculum vitae, a statement of research experience and interests, a list of publications, and names and contact information for three referrals. For further information send an email to [steckler@ldeo.columbia.edu](mailto:steckler@ldeo.columbia.edu) or [nano@ldeo.columbia.edu](mailto:nano@ldeo.columbia.edu).

Columbia University benefits provided with this Officer of Research position. Columbia University is an Equal Opportunity/Affirmative Action employer -- Race/Gender/Disability/Veteran.

We only accept online applications.

## **CZO post-doctoral position at the U. of Kansas**

**Position Overview :** A full-time research position in ecosystem ecology and biogeochemistry is available at the University of Kansas. We seek a dedicated individual to develop our understanding of how land use history, forest development, and climate can influence contemporary soil biogeochemical processes at the newly established Calhoun Critical Zone Observatory in South Carolina, USA. The successful candidate will:

- 1) Work at remote field sites in S.C. using established and emerging biogeochemical tools to investigate soil organic matter dynamics and their biological, geological, and chemical drivers throughout multiple, deep soil profiles;
- 2) Develop and implement well-controlled laboratory and modeling experiments to understand potential mechanisms driving biogeochemical fluxes currently observed in Calhoun's old growth and aggrading forests, and to estimate historical fluxes; and
- 3) Work interactively with a dynamic team of investigators at diverse career stages and representing multiple universities and research interests to build the field, lab, data and web infrastructure critical for Calhoun CZO long-term success, and serve as a liaison between the Calhoun CZO group at large and the Billings lab.

NOTE: This position requires travel for weeks at a time to remote field sites, conducting strenuous field work under primitive conditions for multiple days in a row including digging soil pits/auger deep soil wells, and lifting and carrying instrumentation weighing up to 50 pounds.

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**Job Description:** Contribute to the Billings lab and the Calhoun CZO by:

80% Collaboratively conduct field, laboratory, and modeling research activities to explore microcosm-, plot-, and ecosystem-scale biogeochemical fluxes at the Calhoun CZO and in the lab using Calhoun soils and proxies for microbial substrates; generate manuscripts publishable in top-quality, peer-reviewed journals and presentations for national and international conferences; and participate in proposal writing using data and ideas generated via these efforts

10% Supervise undergraduates and assist in the supervision of graduate students in the Billings lab

10% Contribute to database generation, website development in collaboration with project managers, lab group meetings, journal clubs, Departmental seminar attendance, and general lab up keep

## **Required Qualifications:**

1. Ph.D. at the time of hire in ecosystem ecology, biology, environmental chemistry, geology, soil science or related field.
2. At least two years' experience quantifying biogeochemical fluxes related to soils such as gross and net nitrogen mineralization, decay of well-characterized soil organic matter compounds, and/or CO<sub>2</sub> efflux.
3. At least two years' experience in the application of stable isotopes for understanding soil and/or plant fluxes of carbon and/or nutrients.
4. Excellent written English communication skills as evidenced by previous publications and application materials.

**NOTE: To be appointed at the Postdoctoral Researcher title, it is necessary to have the PhD conferred at the time of hire. Appointments made without a diploma or certified transcript indicating an earned doctorate are conditional hires and are appointed on an interim basis not to exceed 6-months. Upon verification of degree the appointment will be extended to its full duration.**

## **Preferred Qualifications**

1. Experience collecting [CO<sub>2</sub>] and isotopic signatures of CO<sub>2</sub> using cavity ring-down spectroscopy, in field and/or lab conditions.
  2. Experience linking stable isotopic signatures of ecosystem carbon pools to measured flux rates.
- Duration of appointment: 3 years. Continuation is dependent on availability of funds and satisfactory performance.

Apply online at <http://employment.ku.edu/staff/1304BR>. Review of applications begins on September 14, 2014. Estimated start date is January 5, 2015.

KU is an EO/AEE. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability or protected Veteran status.

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## **Department of Earth Sciences at the University of Gothenburg - dynamic researcher to join the geology group**

We are seeking for a dynamic researcher to join the geology group at the Department of Earth Sciences at the University of Gothenburg. Although the focus is put on geochemistry, a broad range of expertise is desired, and I would like to stress to this group that expert knowledge e.g., on thermodynamic modeling, experimental petrology, field mapping, economic geology and/or crustal evolution is an important asset.

The department has some of the best geochemical facilities in Scandinavia, including a brand-new ICPMS (Agilent

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8800QQQ) coupled to a NWR 213 laser ablation system, a second ICPMS for solution work, clean lab targeted for extension and a Hitachi SEM complete with a new detector and MLA software.

Gothenburg is the second-largest city in Sweden, with a vibrant urban cultural scene as well as a staggering natural landscape just outside the city limits. We have a highly international faculty, while social benefits and family-friendly attitude is of the truly Scandinavian standard.

For detailed information and starting online application, please follow the link:

[http://www.gu.se/english/about\\_the\\_university/announcements-in-the-job-application-portal/?languageId=0&disableRedirect=true&id=19144&Dnr=627489&Type=E](http://www.gu.se/english/about_the_university/announcements-in-the-job-application-portal/?languageId=0&disableRedirect=true&id=19144&Dnr=627489&Type=E)

For further information, feel free to contact me directly ([zack@gvc.gu.se](mailto:zack@gvc.gu.se) or +46 31 7862801). Please be advised that application deadline is August 18.

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**The Earth Science Department at Rice University is looking to fill the position of Electron Probe Micro-Analyzer (EPMA) laboratory manager/ research scientist** to oversee the operation of a new 5-spectrometer JEOL JXA-8530F Field Emission Electron Microprobe. The Electron Microprobe Lab Manager/Staff Scientist will:

- Maintain and operate a new JEOL JXA-8530F Field Emission Electron Microprobe
- Train and assist researchers and students in the use of the instrument
- Provide support for external academic and industrial users of the instrument
- Maintain and develop analytical standards
- Manage the instrument usage schedule, billing, and the facility website
- Coordinate all vendor service for the instruments
- Additional responsibilities may include development of new analytical protocol

Experience analyzing geological and/or other industrial materials by EMPA is essential. Some experience maintaining an electron microprobe is preferable but not a requirement. The instrument will be on a JEOL service contract and some amount of on-the-job training is expected.

Eligible job candidates are expected to hold an M.S. and/or a Ph.D. degree in geoscience and other related disciplines involving materials research. To apply, candidates should go to –

[https://jobs.rice.edu/applicants/jsp/shared/position/JobDetails\\_css.jsp?postingId=179224](https://jobs.rice.edu/applicants/jsp/shared/position/JobDetails_css.jsp?postingId=179224)

and attach a cover letter, CV, statement of research interests, and names/contact information of three references. Application review will begin on September 1, 2014, and will continue until the position is filled. The expected start date for the position is January 1, 2015.

The staff scientist will be eligible to apply for external research funding and the position will provide opportunities for conducting independent research using the EPMA as well as other facilities available at Rice. Other existing facilities at Earth Science and Rice include ICP-MS (with laser) facility for trace element and isotopic analyses, piston cylinder and multi anvil devices for synthesis of high P-T samples, FTIR, Raman, SEMs, TEMs, XRDs, XPS for various sample characterization, as well as wide range of computational facilities.

For further information and queries, contact Rajdeep Dasgupta ([Rajdeep.Dasgupta@rice.edu](mailto:Rajdeep.Dasgupta@rice.edu)).

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Rice University is an Equal Opportunity/Affirmative Action Employer.

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## Post-Graduate – Geological and Environmental Sciences

Through the Oak Ridge Institute for Science and Education (ORISE), the Department of Energy's National Energy Technology Laboratory (NETL) seeks a motivated recent post-graduate (MS and PhD) interested in being part of a collaborative, interdisciplinary research team in the geologic and environmental sciences focus area researching rare earth elements. NETL's Office of Research and Development (ORD) conducts research to advance the clean production and efficient utilization of domestic energy resources.

For more information, please visit <http://www.ornl.gov/netl/open-projects/projects.html>.

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## Faculty Position in Geology, Johns Hopkins University

The Department of Earth and Planetary Sciences at Johns Hopkins University invites applications for the first of several anticipated tenure-track faculty positions in geology. The position will be filled at the Assistant Professor level, starting as early as Fall, 2015. The successful candidate will be expected to develop an internationally recognized and externally funded research program, to help develop and participate in undergraduate and graduate teaching, and to supervise graduate student research. A Ph.D. is required in the Earth Sciences or a related discipline; post-doctoral experience is desirable. Possible areas of geologic research include, but are not limited to, quantitative geomorphology, volcanology, tectonics and dynamics, petrology and mineralogy, critical-zone science, and studies of the early Earth that complement the research interests of recent hires in planetary science, paleoecology, light stable isotope geochemistry, and landscape hydrology. We are particularly interested in approaches combining geologic field methods with complementary laboratory, theoretical or remote sensing approaches.

Opportunities exist for the successful candidate to forge research ties with other parts of the Johns Hopkins community that are active in the Earth and Planetary Sciences, including the Departments of Geography and Environmental Engineering, Civil Engineering, Materials Science and Engineering, and the Applied Physics Laboratory. There are excellent opportunities for additional collaborations within the Baltimore-Washington region, including with the Carnegie Institution, the Smithsonian Institution, the U.S. Geological Survey, the University of Maryland, and NASA Goddard Space Flight Center.

Applications must be submitted electronically using Interfolio (<https://apply.interfolio.com/25307>) and must include a cover letter, a curriculum vitae, statements of research and teaching interests, and the names and complete contact information of at least three references. Questions concerning submission of application materials should be directed to Kristen Gaines ([kgaines@jhu.edu](mailto:kgaines@jhu.edu)). Other requests for information may be directed to Professor Dimitri Sverjensky, Search Committee Chair ([sver@jhu.edu](mailto:sver@jhu.edu)). Review of the applications will begin October 15th, 2014 and will continue until the position is filled.

Johns Hopkins University is an equal opportunity/affirmative action employer, and actively encourages interest from minorities and women.

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## Geologist, Minnesota Geological Survey

**Date:** July 16, 2014  
**Classification & Title:** 8351 Assistant Scientist  
**Supervisor:** Dr. Tony Runkel, Chief Geologist

### Overview:

This position supports senior scientific staff and provides an opportunity to develop the skills and understanding necessary to create geologic maps, particularly maps of glacial sediment. The employee may be asked to spend considerable time traveling, mostly in Minnesota, including working outdoors and at physical tasks. There is also a component of office-based tasks including examination of rock and sediment samples; entering, viewing, and manipulating data in geographic information systems; plotting and analyzing surface and subsurface data; and creating geologic maps or maps derived from geologic data.

**Essential Functions:** Distribution of time amongst these activities will vary with the projects the organization undertakes, and with the seasons.

### Field-based data collection (as much as 50% of job)

- Find, describe, and sample exposures of rock and sediment
- Record rock or sediment properties and location of observations
- Operate Giddings soil probe to collect subsurface samples
- Attend and supervise drilling operations and collect subsurface samples
- Collect (or assist with collection) of geophysical data

### Data Manipulation (as much as 50% of job)

- Enter data in digital databases and geographic information systems
- Graph or plot data for analysis
- Manipulate data in geographic information systems
- Prepare field samples for examination or analysis
- Review literature pertinent to topic and location of current project

### Analysis and Reporting (as much as 40% of job)

- Compile field observations, remotely sensed data, and analytical data to develop geologic maps
- Prepare maps, charts, illustrations, and text that describe and explain geologic settings

### Minimum/Essential Qualifications:

- Must be able to lift 50 pounds, and be comfortable working in the outdoors in all seasons.
- Broad background in geology.

### Preferred Qualifications:

- A Master's degree in geology, including field camp
- Experience with geographic information systems
- Experience or training in glacial geology
- Attention to detail, organized, able to work independently and in teams.

\*The employer reserves the right to change or add duties to this position as long as the changes and/or additions are consistent with the job classification.

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## **Tenure Track Faculty Position –Petrology - The Department of Geology and Environmental Earth Science at Miami University**

The Department of Geology and Environmental Earth Science at Miami University invites applications for a tenure-track faculty position at the Assistant Professor level, beginning August 2015. Applicants must have a Ph.D. degree at the time of appointment. The successful applicant will be expected to teach effectively at the undergraduate and graduate levels, supervise student research at the undergraduate, M.S. and Ph.D. levels, initiate and maintain a vigorous, externally-funded research program, and provide service to the university.

*We seek a candidate who is undertaking significant field and/or laboratory-based research in igneous and/or metamorphic petrology. The particular research emphasis, for example igneous/metamorphic processes, crust-mantle evolution, experimental petrology, or ore-forming processes, should complement current program strengths indicated below.*

*The successful applicant will join an active department that consists of 13 faculty members, 3 research/technical staff members, 125 undergraduate and 35 graduate students. The department maintains active research programs in geomicrobiology, geomorphology, geophysics, hydrogeology, igneous petrology, isotope geochemistry, low-temperature geochemistry, mineralogy, paleoclimatology, sedimentology and stratigraphy, structural geology, tectonics, volcanology, and Quaternary geology. The department also maintains modern teaching, research, and instrumentation laboratories, and portable instrumentation in support of the above. Please visit [www.miamioh.edu/geology](http://www.miamioh.edu/geology) for additional information.*

Miami University's Oxford Campus, with nearly 15,000 undergraduate and over 1,800 graduate students, is located in a small-town setting adjacent to the Cincinnati and Dayton urban areas. More information on Miami and on the department may be obtained via <http://www.miamioh.edu> and <http://www.miamioh.edu/geology>.

Interested candidates should submit letter of application, curriculum vitae, statement of teaching philosophy, statement of research plans and unofficial copy of transcripts (submitted as "other") to [www.miamioh.edu/jobs/applicants/Central?quickFind=53705](http://www.miamioh.edu/jobs/applicants/Central?quickFind=53705); candidates should arrange to have three letters of recommendation sent to [PetrologySearch@miamioh.edu](mailto:PetrologySearch@miamioh.edu). Screening of applications begins September 14, 2014 and will continue until the position is filled. Appointment effective August 17, 2015.

Miami University, an equal opportunity/affirmative action employer with smoke- and tobacco-free campuses, is committed to a multicultural environment and strongly encourages applications from minorities, females, veterans and individuals with disabilities. Miami's Annual Security and Fire Safety Report with information on campus crime, fires, and safety may be found at: <http://www.MiamiOH.edu/campus-safety/annual-report/index.html>. Hard copy available upon request. Employment will require a criminal background check according to University guidelines.

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## **Tenure Track Faculty Position –Geobiology - The Department of Geology and Environmental Earth Science at Miami University**

The Department of Geology and Environmental Earth Science at Miami University invites applications for a tenure-track faculty position at the Assistant Professor level, beginning August 2015. Applicants must have a Ph.D. degree at the time of appointment. The successful applicant will be expected to teach effectively at the undergraduate and graduate levels, supervise student research at the undergraduate, M.S. and Ph.D. levels, initiate and maintain a vigorous, externally-funded research program, and provide service to the university.

We seek an outstanding candidate who is undertaking significant field and/or laboratory-based research in Geobiology. The particular research emphasis, for example paleobiology/paleontology, high-resolution biostratigraphy, paleobiogeochemistry, paleoecology, or paleoclimatology, should complement current program strengths indicated below. It is anticipated that this new position will enable us to address important questions pertaining to the interactions between life and Earth through geologic time.

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The successful applicant will join an active department that consists of 13 faculty members, 3 research/technical staff members, 125 undergraduate and 35 graduate students. The department maintains active research programs in geomicrobiology, geomorphology, geophysics, hydrogeology, igneous petrology, isotope geochemistry, low-temperature geochemistry, mineralogy, paleoclimatology, sedimentology and stratigraphy, structural geology, tectonics, volcanology, and Quaternary geology. The department also maintains modern teaching, research, and instrumentation laboratories, and portable instrumentation in support of the above. Please visit [www.miamioh.edu/geology](http://www.miamioh.edu/geology) for additional information.

Miami University's Oxford Campus, with nearly 15,000 undergraduate and over 1,800 graduate students, is located in a small-town setting adjacent to the Cincinnati and Dayton urban areas. More information on Miami and on the department may be obtained via <http://www.miamioh.edu> and <http://www.miamioh.edu/geology>.

Interested candidates should submit letter of application, curriculum vitae, statement of teaching philosophy, statement of research plans and unofficial copy of transcripts (submitted as "other") to [www.miamioh.edu/jobs/applicants/Central?quickFind=53702](http://www.miamioh.edu/jobs/applicants/Central?quickFind=53702); candidates should arrange to have three letters of recommendation sent to [GeobioSearch@miamioh.edu](mailto:GeobioSearch@miamioh.edu). Screening of applications begins September 14, 2014 and will continue until the position is filled. Appointment effective August 17, 2015.

Miami University, an equal opportunity/affirmative action employer with smoke- and tobacco-free campuses, is committed to a multicultural environment and strongly encourages applications from minorities, females, veterans and individuals with disabilities. Miami's Annual Security and Fire Safety Report with information on campus crime, fires, and safety may be found at: <http://www.MiamiOH.edu/campus-safety/annual-report/index.html>. Hard copy available upon request. Employment will require a criminal background check according to University guidelines.

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## University of Hawaii PX<sup>2</sup> Beamline Scientist at Argonne

PX<sup>2</sup> Beamline Scientist/Compres Researcher

University of Hawaii NSF/COMPRES-sponsored project "Partnership for eXtreme Xtallography (PX<sup>2</sup>)" is looking to fill a regular, full time, non-civil service position, located at the Advanced Photon Source (APS) in Argonne, Illinois. Continuation of employment is dependent upon program/operational needs, satisfactory work performance, availability of funds, and compliance with applicable Federal/State laws.

### DUTIES:

- Design, build and maintain the state of the art instrumentation for the PX<sup>2</sup> project;
- Support user program in high pressure science at the PX<sup>2</sup> facility;
- Participate in project-related procurement, construction, commissioning and reporting;
- Build a user community for the new facility;
- Work closely with the project PI, staff of the APS host institution, GSECARS, and the COMPRES Technology Officer at Argonne in identifying, designing and implementing new experimental infrastructure for state of the art science at PX<sup>2</sup>;
- Build his/her own internationally competitive research program supported by extramural funds and utilizing facilities at available at PX<sup>2</sup> and the Hawaii Institute of Geophysics and Planetology;
- Perform other duties as assigned.

### PRIMARY QUALIFICATIONS:

EDUCATION/TRAINING: Ph.D. in high pressure research, mineralogy, crystallography, condensed matter physics, solid-state chemistry/spectroscopy or closely related field.

EXPERIENCE: Track record demonstrated by publications in crystallography, spectroscopy, or synchrotron radiation related research;

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ABIL/KNOW/SKILLS: Knowledge, considerable experience and understanding of synchrotron-related experimental techniques, computer programming, scientific instrumentation development, design and control; Excellent interpersonal, communication and presentational skills; Ability to interact effectively and diplomatically with staff and facility users at all levels; Ability to design, plan, organize, and implement projects and tasks within an allotted timeframe;

SECONDARY QUALIFICATIONS: Project management experience; Successful track record in applying for federal funding; Python and/or IDL programming experience; Hands-on experience with laser spectroscopy and laser heating.

INQUIRIES: For more information about the position, please contact Grace Furuya (808) 956-8344<<tel:%28808%29%20956-8344>>, [gfuruya@soest.hawaii.edu](mailto:gfuruya@soest.hawaii.edu)<<mailto:gfuruya@soest.hawaii.edu>>.

HOW TO APPLY: All applications need to be submitted through the RCUH website. Please go to [www.rcuh.com](http://www.rcuh.com)<<http://www.rcuh.com>>, click on "Employment"; select "Apply" and navigate to "See Job Announcements and/or Apply for a Job." The Job Opening ID for this position is 14326. You must submit the following documents online to be considered for the position: 1) cover letter, 2) resume with full publication list, 3) salary history, 4) names and contact information of 3 professional references, 5) copy of degree(s)/transcript(s)/certificate(s). All online applications must be submitted/received by the closing date (11:59 P.M. Hawaii Standard Time/RCUH receipt time) on August 8, 2014. RCUH is EEO/AA Employer.

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\*\*\*\*\* **HAVE A GREAT WEEKEND** \*\*\*\*\*