Project and Funding Opportunities for Students at New Mexico Tech

Student opportunities outside New Mexico Tech, click here.

Summer Student Internship Opportunity for BS and MS

The Incorporated Research Institutions for Seismology (IRIS) Program for Array Seismic Studies of the Continental Lithosphere (PASSCAL) has an opening for a 2014 summer student intern at the IRIS PASSCAL Instrument Center at New Mexico Tech. The duration of the internship is flexible (up to three months). If scheduling allows, the intern will also take part in the late May IRIS Education and Outreach Orientation Week at New Mexico Tech (www.iris.edu/hq/internship/about/orientation) in association with the IRIS Summer Undergraduate Internship program. We seek an advanced undergraduate or graduate student with seismic field methods, seismograph electronics, software development or data processing interests. Details are here. For general information, please visit www.passcal.nmt.edu, or contact PASSCAL Instrument Center Director Bruce Beaudoin (575-835-5070; bruce@passcal.nmt.edu). The internship includes a weekly stipend, living expenses, round-trip travel funds to Socorro, NM, and tuition support to cover NMT summer registration as a special graduate student. To apply, send a letter summarizing interests, college transcripts, and at least one appropriate letter of recommendation to: PASSCAL Summer Intern Committee, c/o Bruce Beaudoin, IRIS PASSCAL Instrument Center, New Mexico Tech, 100 East Rd., Socorro, NM 87801. For full consideration, materials must be received by April 1, 2014.

Geochemistry Opportunities for PhD and MS

Kent C. Condie, Professor of Geochemistry, has a number of opportunities available including research on the geologic record of ancient mantle plumes; a field and geochemical study of a fragment of Precambrian oceanic crust near Albuquerque, NM; a study of komatiites as tracers of Archean mantle temperature; and U/Pb and Hf isotopic studies of detrital zircons from modern river systems in SWUS to track the growth of the North American continent.
Details are here. For more information, contact Dr. Kent Condie at kcondie@nmt.edu or 575-835-5531.

Interdisciplinary Hydrologic Science Opportunities at New Mexico Tech

New Mexico Tech offers Ph.D. and M.S. Research Assistantships to graduate students interested in topics in hydrologic science ranging from subsurface processes to the atmospheric boundary layer. The interdisciplinary Hydrology Program is one of the largest and strongest in the United States. Seven full-time faculty and ten adjunct faculty in hydrology allow us to offer more than 20 different courses in hydrologic science and conduct research across a broad range of cutting-edge topics. Our interdisciplinary curriculum has been revised to provide students with the training in the multiple scientific techniques necessary to resolve societally-relevant hydrological problems. Recent research efforts are focused on understanding the impacts of vegetation, climate and human-induced changes on water supply and water quality. Students with strong scientific or engineering backgrounds are encouraged to apply.

For more information contact: Dr. Fred Phillips. Additional information and application forms can be found at www.ees.nmt.edu/Hydro/.

Geophysics Opportunities for Graduate Students

The Geophysics Graduate Program in the Department of Earth and Environmental Science at the New Mexico Institute of Mining and Technology (New Mexico Tech) offers supported MS- and PhD-level student opportunities. Specific projects may include:

- Seismological investigation of structure and processes in subduction zones
- Hydrothermal circulation in subducting ocean crust
- Mass transport and explosive processes accompanying Strombolian volcanic eruptions
- Large-scale teleseismic imaging of western U.S. and Antarctic mantle
- Geodetic investigations of active deformation in the western U.S.
- High-resolution relocation studies of hypocenters in volcanic and tectonic seismogenic regions
- Seismic investigation of tremor-like sources associated with Antarctic mega-icebergs
- Volcano Infrasound
- Carbon sequestration
- Subduction zone earthquake seismology

New Mexico Tech, located in the central Rio Grande valley community of Socorro, emphasizes science and engineering teaching. The Department of Earth and Environmental Science includes 20 faculty, numerous active adjunct faculty, and approximately 50 undergraduate majors and 75 graduate students. For more information, contact the geophysics faculty via email to earthenv@nmt.edu.

### Fellowships for Graduate Studies in Ore Deposits

Students interested in ore deposit genesis and exploration are eligible for the Donald Yardley, Barkley Wykof, and Charles Park fellowships based on applicant’s qualifications. For more information on ore deposit studies visit this link.

### Earth Sciences Graduate Fellowship (Kottlowski/Bureau Fellowship)

The New Mexico Bureau of Geology and Mineral Resources, a division of New Mexico Tech, is soliciting candidates for the Kottlowski/Bureau Fellowship. The fellowship, for an incoming Ph.D. candidate in the Department of Earth and Environmental Science, offers a 12-month, $23,000 stipend plus full coverage of tuition. The fellowship is renewable for up to three years. Additional funding is available to cover some laboratory and field expenses.

All PhD applicants to the Department will be considered for the fellowship. The successful candidate may have interests in any earth or environmental science specialty, but will be expected to do a project within the state or of particular interest to the state, under the direction of advisors from both the Bureau and the Department. Application deadline is January 15th. Applicants will automatically be considered for other support within the Department.
New Mexico Tech is a highly rated science and engineering university with more than 60 earth science faculty shared between the academic division and the Bureau. More details of the fellowship are here.

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**Jerry Durtsche and Cynthia Durtsche Scholarship**

Jerry Durtsche and Cynthia Durtsche Scholarship Application (internal competition)

- **DEADLINE:** mid-March
- **ELIGIBILITY:** Undergraduate student majoring in one of the programs offered by Earth and Environmental Science Department
- **AMOUNT:** $500
- **MORE INFORMATION:** E&ES Dept. Office

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**Christina Lochman Balk Fellowship in Stratigraphy/Sedimentary Geology/Paleontology**

New Mexico Tech invites applications for the Christina Lochman Balk Fellowship in stratigraphy/sedimentary geology/paleontology. The fellowship provides financial support for graduate students pursuing M.S. and Ph.D. degrees in the department. The successful applicant will have a strong academic record and will be interested in pursuing research in sedimentary geology and/or paleontology. Interested individuals should contact Dave Johnson, Associate Professor of Geology.