Postdoctoral Research Associate I (Postdoctoral Fellow, Research)

Position Details

Position Information

Title
Postdoctoral Research Associate I (Postdoctoral Fellow, Research)

Department
Mathematics (0430)

Location
Main Campus

Position Summary
Program in Applied Mathematics https://appliedmath.arizona.edu/ at the University of Arizona School of Mathematics invites applications for an Applied Mathematics Postdoctoral Fellow. The fellow is expected to split their time 50/50 between research and education in physical, engineering, biological, data science and other flavors of applied mathematics. The fellow will participate in developing and implementing innovative approaches to teaching the applied mathematics program core and specialized courses. The fellow will conduct his/her own research in any area of modern applied mathematics. Collaboration of the fellow with professors and graduate students of the program are encouraged. The Applied Mathematics Postdoctoral Fellow reports to the chair of the Program in Applied Mathematics. This is a two-year non-tenured position. Expected start date August 2019 beginning of Fall semester.

Outstanding UA benefits include health, dental, and vision insurance plans; life insurance and disability programs; paid vacation, sick leave, and holidays; UA/ASU/NAU tuition reduction for the employee and qualified family members; state and optional retirement plans; access to UA recreation and cultural activities; and more!

The University of Arizona has been listed by Forbes as one of America’s Best Employers in the United States and WorldatWork and the Arizona Department of Health Services have recognized us for our innovative work-life programs. For more information about working at the University of Arizona and relocation services, please click here.

Duties & Responsibilities

• Participate in teaching of applied mathematics core and/or specialized courses (equivalent of three 3 credit courses in 2 years)
• Write and publish scientific articles in applied mathematics
• Participate in all mandatory postdoc activities required by Department of Mathematics
• Support writing grant proposals of the Applied Mathematics program for external funding opportunities
• Serve as a collaborative member of a team of interdisciplinary researchers of the applied mathematics program

Knowledge, Skills, & Abilities

Minimum Qualifications
• Candidates are expected to have a Ph.D. by the time of appointment in Mathematics, Statistics, Physics, Computer Science, Information Science, Engineering or a related field
• Demonstrated interest in applied mathematics
• Excellent verbal and written communication skills

Preferred Qualifications
• Knowledge of computational approaches
• Experience in theory, methods and algorithms of optimization, data science and machine learning
• Knowledge of C, C++, matlab, python, julia and other modern programming languages used in scientific computing
• Strong scholarly writing skills and publication record

FLSA
Exempt

Full Time/Part Time
Full Time
<table>
<thead>
<tr>
<th><strong>Number of Hours Worked per Week</strong></th>
<th>40+</th>
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<tbody>
<tr>
<td><strong>Job Category</strong></td>
<td>Postdoctoral Research</td>
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<tr>
<td><strong>Benefits Eligible</strong></td>
<td>Yes - Full Benefits</td>
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<tr>
<td><strong>Posted Rate of Pay</strong></td>
<td>$50,000 Annually</td>
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<tr>
<td><strong>Type of criminal background check required:</strong></td>
<td>Name-based criminal background check (non-security sensitive)</td>
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<td><strong>Posting Detail Information</strong></td>
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<tr>
<td><strong>Posting Number</strong></td>
<td>P20732</td>
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<tr>
<td><strong>Number of Vacancies</strong></td>
<td>One</td>
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<td><strong>Desired Start Date</strong></td>
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<td><strong>Position End Date (if temporary)</strong></td>
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<td><strong>Limited to Current UA Employees</strong></td>
<td>No</td>
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<tr>
<td><strong>Contact Information for Candidates</strong></td>
<td>Michael Chertkov <a href="mailto:chertkov@math.arizona.edu">chertkov@math.arizona.edu</a></td>
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<tr>
<td><strong>Open Date</strong></td>
<td>01/11/2019</td>
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<td><strong>Close Date</strong></td>
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<tr>
<td><strong>Open Until Filled</strong></td>
<td>Yes</td>
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<tr>
<td><strong>Review Begins On</strong></td>
<td>02/15/2019</td>
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<tr>
<td><strong>Special Instructions to Applicant</strong></td>
<td>Candidates should identify up to three faculty members of the Applied Mathematics program as potential mentors, and explain how their research can both benefit from, and enhance, our research endeavors within their Statement of Research Interests.</td>
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<tr>
<td><strong>Diversity Statement</strong></td>
<td>At the University of Arizona, we value our inclusive climate because we know that diversity in experiences and perspectives is vital to advancing innovation, critical thinking, solving complex problems, and creating an inclusive academic community. As an Hispanic-serving institution, we translate these values into action by seeking individuals who have experience and expertise working with diverse students, colleagues, and constituencies. Because we seek a workforce with a wide range of perspectives and experiences, we provide equal employment opportunities to applicants and employees without regard to race, color, religion, sex, national origin, age, disability, veteran status, sexual orientation, gender identity, or genetic information. As an Employer of National Service, we also welcome alumni of AmeriCorps, Peace Corps, and other national service programs and others who will help us advance our Inclusive Excellence initiative aimed at creating a university that values student, staff and faculty engagement in addressing issues of diversity and inclusiveness.</td>
</tr>
<tr>
<td><strong>Quick Link for Internal</strong></td>
<td><a href="http://uacareers.com/postings/34728">http://uacareers.com/postings/34728</a></td>
</tr>
</tbody>
</table>
Supplemental Questions

Required fields are indicated with an asterisk (*).

1. * Where did you first learn about this position?
   - Arizona Daily Star
   - Arizona Republic
   - ArizonaDiversity.com
   - Careerbuilder.com
   - Chronicle of Higher Education
   - Department of Economic Security (DES)
   - Diverse Issues in Higher Education
   - HigherEdsJobs.com
   - Hispanic Outlook in Higher Education
   - Indeed.com
   - InsideHigherEd.com
   - Jobing.Com
   - LinkedIn
   - Local Job Banks
   - Pima County One-Stop
   - Professional Conference
   - Professional journal/publication
   - Referred by UA Employee
   - Invited by Dept to Apply
   - UA Website
   - Other

2. * Will you have a Ph.D. by the time of appointment in Mathematics, Statistics, Physics, Computer Science, Information Science, Engineering or a related field?
   - Yes
   - No

Documents Needed to Apply

Required Documents
1. Cover Letter
2. Curriculum Vitae
3. Statement of Teaching Philosophy
4. Statement of Research Interests

Optional Documents