Postdoctoral Scholar - Applied and Computational Mathematics

Job #JPF02110
- Mathematics / College of Letters & Science - Mathematical, Life, and Physical Sciences / UC Santa Barbara

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POSITION OVERVIEW

Position title: Postdoctoral Scholar - Applied and Computational Mathematics
Percent time: 100
Anticipated start: March 01, 2022 but no later than June 30, 2022
Position duration: The position is for one (1) year with possibility of renewal for additional years, up to three (3) years in total based on performance and funding availability.

APPLICATION WINDOW

Open date: December 3rd, 2021

Next review date: Friday, Dec 17, 2021 at 11:59pm (Pacific Time)
Apply by this date to ensure full consideration by the committee.

Final date: Thursday, Jun 30, 2022 at 11:59pm (Pacific Time)
Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

POSITION DESCRIPTION

The Department of Mathematics at University of California, Santa Barbara invites applications for two postdoctoral positions broadly in the area of applied and computational mathematics. Candidates are expected to have expertise in at least one of the following areas: analysis of electronic structure models, multiscale modeling, tensor networks, or quantum physics. Candidates with physics, chemistry, or materials science backgrounds who have extensive experience in terms of method development are also welcome. The positions permit the teaching of two under/graduate courses during the academic year in the appropriate teaching title.
Postdoctoral Scholar appointments are intended to provide a full-time training program of advanced academic preparation and research training under the mentorship of a faculty member.

Further information about Mathematics at UCSB can be found at: http://www.math.ucsb.edu.

The University is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service as appropriate to the position.

QUALIFICATIONS

Basic qualifications (required at time of application)
At a minimum, applicants must have completed all requirements for PhD (or equivalent) in Math or a related field, except the dissertation (or equivalent) at time of application.

Additional qualifications (required at time of start)
PhD is required by time of appointment

Preferred qualifications
The candidate is expected to have a good knowledge of numerical method development, with expertise in at least one of the following areas: analysis of quantum mechanical models, multiscale modeling, numerical eigenvalue problems, tensor networks, quantum physics, materials science and or physics, chemistry, or materials science backgrounds with extensive experience in terms of method development as evidenced by:
high quality publications in top journals, strong reference letters indicating research independence and creativity of contributions to the field, and research distinctions and/or awards.

APPLICATION REQUIREMENTS

Document requirements
- American Mathematical Society Cover Sheet - available online at:
  http://www.ams.org

- Curriculum Vitae - Your most recently updated C.V.

- Statement of Research

- Statement of Teaching Philosophy

- Statement of Contributions to Diversity - Diversity, equity, and inclusion are core values at UC Santa Barbara. Our excellence can only be fully realized by faculty, staff, and students who share our commitment to these values. The department strongly encourages all applicants to submit an optional Statement of Contributions to Diversity, addressing past and/or potential contributions to diversity through research, teaching, and service. This statement, if submitted, will be reviewed for evidence of, or potential for, teaching, research, professional and/or public service contributions that promote diversity and equal opportunity, such as effective strategies used for the educational advancement of students in various under-represented groups; demonstrated contributions to the advancement of equitable access and diversity in education; and contributions furthering diversity and equal opportunity in higher education through participation in such activities as recruitment, retention, and mentoring of scholars and students. (Optional)

Reference requirements
- 4 letters of reference required

Applicants will need to arrange for four (4) references to submit letters of recommendation on their behalf via the recruitment website (at least one of which is directed towards teaching).

Apply link: https://recruit.ap.ucsb.edu/JPF02110
Help contact: ddickinson@math.ucsb.edu

CAMPUS INFORMATION

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law.

As a condition of employment, you will be required to comply with the University of California SARS-CoV-2 (COVID-19) Vaccination Program Policy https://policy.ucop.edu/doc/5000695/SARS-CoV-2_Covid-19. All Covered Individuals under the policy must provide proof of Full Vaccination or, if applicable, submit a request for Exception (based on Medical Exemption, Disability, and/or Religious Objection) or Deferral (based on pregnancy) no later than the applicable deadline. New University of California employees must (a) provide proof of receiving at least one dose of a COVID-19 Vaccine no later than 14 calendar days after their first date of employment and provide proof of Full Vaccination no later than eight weeks after their first date of employment; or (b) if applicable, submit a request for Exception or Deferral no later than 14 calendar days after their first date of employment. (Capitalized terms in this paragraph are defined in the policy.) Federal, state, or local public health directives may impose additional requirements.

JOB LOCATION

Santa Barbara, CA