



**2011 Summer Research Positions
Givens Associates
Argonne National Laboratory
Mathematics and Computer Science Division**

The Mathematics and Computer Science (MCS) Division at Argonne National Laboratory is developing innovative techniques in numerical computing and computational mathematics. The Givens Associate positions are intended to encourage graduate students who are beginning careers in numerical analysis or computational mathematics. Candidates must be in an accredited Ph.D. program in mathematics, applied mathematics, computer science, or a related field at a U.S. university. Givens Associates will work actively with MCS scientists designing, analyzing, and implementing numerical and visualization methods.

The MCS Division has strong programs in software tools and in numerical methods for automatic differentiation, optimization, partial differential equations, and linear algebra. Internationally recognized for innovative research in high-performance computing, the MCS Division supports an excellent computational environment that includes access to a Blue Gene/P cluster, two other Linux clusters, a scientific visualization laboratory, and a distributed computing laboratory. For further information, see www.mcs.anl.gov/LANS.

Argonne is located in the southwestern Chicago suburbs, offering the advantages of affordable housing, good schools, and easy access to the cultural attractions of the city.

During the appointment period, participants receive a stipend of \$4,000 to \$4,200 per month, depending on experience level. Please be advised that federal/state income taxes will be withheld from the stipend and the stipend amount includes funding to pay for lodging costs. Transportation expenses are reimbursed for one round trip between the Laboratory and the participant's home or university for round-trip distances greater than 100 miles. Travel will usually be paid only for students whose permanent addresses established by your drivers license is more than fifty miles away from Argonne. Transportation expenses will be reimbursed on the basis of the most direct route. Travel by a private automobile will be reimbursed at the current government rate up to the cost of the lowest commercial airfare, whichever is lower. Travel by air will be reimbursed at the cost of the lowest commercial airfare only if Argonne makes the reservation. Students will not receive reimbursement if they make their own flight arrangements.

The first step in the application procedure is sending your current resumé as a .pdf file, along with having three letters of reference sent to Ms. Lisa Reed, Division of Educational Programs, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, IL 60439 (Lreed@dep.anl.gov <<mailto:Lreed@dep.anl.gov>>). This material must be received at Argonne by February 1, 2011.

Approximately six appointments will be made for 10 to 12 summer weeks and may be renewed for a second summer.



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laboratory managed by UChicago Argonne, LLC.