

High-order method development for computation of high-speed flows

Graduate assistantships are available for a Ph.D. student to enter the Joint Doctoral Program between San Diego State University (SDSU) and the University of California at San Diego (UCSD) or the Doctoral Program at the Computational Science Research Center (CSRC) at San Diego State University (SDSU). The position is in the general area of Scientific Computing and High-Speed Aerodynamics. Research activities will focus on the development of state-of-the-art, high-order computational methods for computation of high-speed flows.

The successful applicant will have an outstanding academic record and be highly motivated to work hard on very challenging research projects that are mathematically oriented. Proof of experience and interest in the following areas is a strong plus; algorithm development: numerical analysis: high-order methods: shock capturing: and high-speed flows. Significant programming experience in one or more major program languages is a must.

The students are enjoying a synergistic and interdisciplinary environment. They are benefiting from the excellent facilities, courses and faculty in the Aerospace Engineering Departments at SDSU and UCSD, and in the CSRC. The student will interact with researchers throughout the United States. The CSRC Doctoral Program is ranked #9 nationally in the field of computational science. Forty Ph.D. students are currently enrolled in the rapidly expanding program, the first of its kind in Southern California.

If interested, send preliminary application materials by email including (1) a detailed resume, (2) a summary of course work and grades (transcript), (3) at the names and contact of least 2 references, and (4) GRE and TOEFL scores (for minimum scores please consult the following web site: <http://www.engineering.sdsu.edu/main/jdp.htm>).

More information may be found at

- <http://attila.sdsu.edu/jacobs/research.html>
- <http://www.engineering.sdsu.edu/main/jdp.htm>
- <http://www.csrc.sdsu.edu/csrc/index.php>
- http://www.csrc.sdsu.edu/csrc/programs/phd_checklist.php
- <http://www.engineering.sdsu.edu/aerospace/>