



Predictive
Engineering &
Computational Science



Scientific Software Architect

The Center for Predictive Engineering and Computational Sciences in the Oden Institute for Computational Engineering and Sciences at the University of Texas at Austin is seeking a Scientific Software Architect to join a large research project to develop predictive simulations of inductively coupled plasma (ICP) torches. This research effort is supported in part by funding from the Department of Energy's National Nuclear Security Administration's (NNSA) Office of Advanced Simulation and Computing under the Predictive Science Academic Alliance Program. It involves multi-scale, multi-physics models and requires the use of advanced numerical methods and supercomputing resources.

In support of this program, the [Scientific Software Architect](#) will manage the development of software applications for ICP torch simulations by providing technical leadership to and coordinating the efforts of multiple teams developing different components. The software will be expected to run at scales of tens to hundreds of thousands of concurrent threads/tasks on heterogeneous supercomputers, using modern techniques for parallelism of scientific simulation software.

PLEASE NOTE: an ability to obtain access for use of non-classified HPC systems housed at the Department of Energy's NNSA Laboratories is one of the position requirements.

Applicants (external to The University of Texas at Austin):

[https://utaustin.wd1.myworkdayjobs.com/UTstaff/job/UT-MAIN-CAMPUS/Scientific-Software-Architect R_00023149-1](https://utaustin.wd1.myworkdayjobs.com/UTstaff/job/UT-MAIN-CAMPUS/Scientific-Software-Architect_R_00023149-1)

Applicants (current and active employees of The University of Texas at Austin):

[https://www.myworkday.com/utaustin/d/inst/15\\$158872/9925\\$40415.html](https://www.myworkday.com/utaustin/d/inst/15$158872/9925$40415.html)