

COMPUTATIONAL SCIENTIST

General Fusion is developing the fastest, most practical, and lowest cost path to commercial fusion energy. Established in 2002, the company and its 65 employees are supported by a global syndicate of leading energy venture capital funds, industry leaders, and technology pioneers, including: Chrysalix Energy Venture Capital, Bezos Expeditions, Cenovus Energy and Sustainable Development Technology Canada. Fusion energy holds immense promise as a clean, safe and abundant energy source. Fusion generates neither pollution nor greenhouse gases that drive climate change. Fusion energy is fueled by deuterium and tritium isotopes, which are easily extracted from seawater and derived from lithium, in abundant supply. There is enough fusion fuel to power the planet for hundreds of millions of years. Unlike nuclear fission reactors, fusion energy does not require uranium as fuel, cannot suffer from meltdowns and does not produce long-lived radioactive wastes.

Salary and benefits are competitive, relocation to Vancouver is required. Please refer to our website www.generalfusion.com for more information on General Fusion.

Opportunity

General Fusion is seeking a computational scientist to contribute to the expansion and enhancement of our simulation capabilities in the development of our magnetized target fusion (MTF) power plant. General Fusion is developing full scale subsystems of its power plant concept and every development step is matched with sophisticated simulation to guide ongoing work.

We are looking for individuals to assist in automating, streamlining and growing our simulation capabilities. The successful candidate possesses solid computational programming skills and a keen scientific mind. We require individuals that are adaptable, will focus on adding value, are willing to learn and will thrive in a lean, multi-disciplinary technical development environment.

Responsibilities

The qualified candidate will work under the Director of Plasma Development and work closely with members of the plasma simulation team to further the simulation of General Fusion's novel power plant design.

Specific responsibilities include:

- Setting up, running and post-processing plasma physics computer simulations using software developed by General Fusion.
- Interpreting and analyzing simulation results
- Documenting and effectively communicating results of computer simulation to the broader technical team.
- Improving performance and throughput of numerical simulations.

Minimum Qualifications

Candidates for this position must have:

- B.Sc. or equivalent degree in mechanical engineering, physics, applied computer science or a closely related field.
- Extensive experience in computational physics.
- Experience with Unix and Matlab.
- Strong programming skills and a willingness to learn new methods.
- Proven ability to work well in a team setting and individually.

Additional consideration will be given to candidates who:

- Have experience in running code on parallel machines.
- Are familiar with VAC or NIMROD or other MHD codes.
- Are familiar with experimental methods and electromagnetic theory.

Applications

Please send your resume to opportunities@generalfusion.com. We thank all applicants for their interest, only those selected for an interview will be contacted.