

COMPUTATIONAL PHYSICIST INTERN

We are looking to fill an internship position for a Computational Physicist Intern. The position will report into the Accelerator Systems Applied Research Group. The team's charter is to provide the greater Varian Medical Systems organization with technical domain expertise and support in the area of: particle accelerator technology, microwave system design, radiation physics design and measurement, and pulsed-power systems.

This primary project to be completed during this internship will be updating several particle accelerator computational codes, currently written in FORTRAN77, to more modern language versions (e.g. FORTRAN 95). In the process, our main particle tracking code will be parallelized to enable substantial increase in number of tracked particles and ability to run multi-thread computations making computation faster.

This position will require excellent communication skills and the ability to work well as part of a team, with respect and consideration for team members. Achievements will benefit from an enthusiasm to learning from others, and a willingness to put in extra effort to grow your skill set.

Additional duties will include:

- Keeping detailed records in a log book or in a report format. Detailed records entail describing test ups, procedures, results, and observations.
- Document code changes and corresponding validation code tests results for each major code change.
- Provide scalability tests of the final version of the parallelized code.

JOB Requirements

- Completed at least 3rd year of BS/BA in applied physics, computer engineering, computational science, or physics.
- Experience with Linux, Git, OpenMP, FORTRAN, C, C++.
- Basic knowledge of accelerator physics.

For this position reply to:

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