One of today's most exciting developments in computer science is the Ada program, designed to provide software developers with an integrated, state-of-the-art programming environment based on the new DoD common language. At SofTech, we have played a leading role in the evolution of Ada, and are today in the forefront in developing production Ada systems.

**Ada Language Design**
Since 1975, when the DoD began defining the requirements for a common high-order language, SofTech has played a key role in the design of Ada. We participated in defining the requirements of military computer systems, in evaluating languages in terms of these requirements, and in specifying the new common language. We continued as reviewers of the evolving language, and are now reviewing and evaluating proposed changes to the language definition.

**Ada Environment**
The Ada Language System that we are developing for the Army also includes an integrated Ada Programming Support Environment based on the Stoneman specifications. This environment provides a powerful user interface as well as tools for managing large software projects. It will be portable across host systems and will support extension through standard interfaces. This common environment concept is one of the most challenging and innovative aspects of the Ada program.

**Ada Compiler Development**
SofTech is now applying our extensive compiler background to the development of production Ada compilers. Under contract to the U.S. Army, we are developing an Ada compiler system hosted on the VAX 11/780 and targeted to the VAX, the PDP 11/70 and several military microcomputers. This effort demands state-of-the-art compiler building technology, with particular emphasis on parameterizing target dependencies.

**Ada Compiler Validation**
The DoD goal of providing a standard common language demands that compilers be validated for conformance to the standard. Under contract to DARPA, SofTech is developing an extensive Ada compiler validation test set. A major emphasis of this effort is identifying the kinds of errors that compiler implementers are especially likely to make. The Implementor's Guide, produced as a result of this analysis, is achieving wide recognition as an aid to Ada compiler designers.

**Ada Design Methodologies**
SofTech has a long-standing reputation in the development of state-of-the-art design methodologies. We are now applying this expertise to consideration of how Ada can most effectively be used in actual software projects. Our recommendations will be applied to our current work on the Ada Language System as well as to future applications systems to be implemented in Ada.

**Ada Training**
Successful introduction of Ada to the programming community requires careful attention to training course development. SofTech is presently developing a management level seminar on the goals and impact of the Ada program, and an in-depth Ada programming course. Our extensive experience in using Ada to develop the Ada Language System will provide an ideal foundation for training others in its use.

SofTech has immediate openings for Compiler and Tool Designers, Language Specialists and Course Developers, as well as specialists in all other phases of Software Engineering, from requirements definition to system validation. We are a rapidly growing company with a reputation for excellence in the development and application of software technology. We are proud of the continuity of our staff and the national reputation of our key people.

We offer opportunities for professional growth inherent in a 300-person environment, coupled with excellent starting salaries and outstanding benefits. Please write to Kathy Noble, Dept. 509, SofTech, Inc., 460 Totten Pond Road, Waltham, MA 02154; or call (toll-free) 1-800-225-8854.

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