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GammaTech Awarded NASA to Develop Incremental Code Migration Techniques

Ithaca, NY -- GammaTech, Inc. announced today that it has been awarded a \$69,941 Small Business Innovative Research (SBIR) Phase I contract by the National Aeronautics and Space Administration (NASA). Upon completion of this six-month contract, GammaTech will be eligible to compete for up to \$600,000 in Phase II SBIR funding. Under terms of the agreement, GammaTech will develop techniques for incremental migration of legacy code to modern languages.

GammaTech will develop software technology for the interactive incremental conversion of legacy code to other languages. The goal is to make it cost-effective to migrate code from one language to another. The technology will allow a user to first transform the code to make it amenable to translation, then manage the semi-automatic translation to the new language, then finally allow the user to transform the translated code to allow it to be easily maintainable. The implementation of this technology will combine the Synthesizer Generator - GammaTech's language-sensitive editor generating toolkit - and Refactoring - a methodology for systematically transforming code to improve its design. The underlying machinery will be language independent, but in order to have focus in Phase I GammaTech will concentrate on the translation of Ada to Java.

ABOUT GRAMMATECH

GammaTech was founded in 1988 to design, develop, and market language-based productivity tools for software engineers. The company has an active research agenda sponsored by the Defense Advanced Research Projects Agency (DARPA), the Office of Naval Research (ONR), the National Science Foundation (NSF), the Air Force Research Laboratory (AFRL), the Naval Sea Systems Command (NAVSEA), the Ballistic Missile Defense Organization (BMDO), the National Institute of Standards and Technology (NIST) and the National Aeronautics and Space Administration (NASA). The company has conducted previous research on dependence graphs, formal methods, and language-based programming, and has successfully transitioned its research into commercial software tools. GammaTech currently markets CodeSurfer, a software-understanding tool, Ada-ASSURED, a language-sensitive editor, Ada-Utilities, a language-sensitive toolset for project-wide quality and standards auditing, and the Synthesizer Generator, a tool for developing language-sensitive program-development environments. These products are available directly from GammaTech and distributed by Aonix Software. Additional information is available on the Internet at www.grammatech.com.

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