

# Software Development Services

Although Information Disciplines isn't primarily a programming contractor, we undertake a few well-defined development projects related to our areas of research and methodology expertise. Some of these projects serve as pilot demonstrations of the effectiveness of the concepts and techniques that are the subject of our consulting and training work with clients.

In particular, we're eagerly looking for opportunities to work on projects that involve any of the following:

- Establishing and extensively using a library<sup>1</sup> of *reusable components*.
- Integration of rule-based *expert systems*<sup>2</sup> with mainstream information systems.
- Designing and using hierarchies of *object-oriented classes*.<sup>3</sup>
- Use of new, experimental, or special-purpose *programming languages*.
- Heavy use of macros or other *program generator* techniques.
- Web-based deployment
- *Client-server* (or other distributed) architecture.
- Exploitation of *relational data base concepts*.
- Use of interesting or innovative *CASE* (computer assisted software engineering) tools.

For a sufficiently well-defined problem<sup>4</sup> that doesn't depend on unknown technology, we prefer to establish a fixed price contract with a definite schedule. Otherwise, we work on a standard time and materials contract, either at the client's site or our office.

For more information call Conrad Weisert (773) 736-9661

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<sup>1</sup> Information Disciplines can draw upon its own libraries of components in Basic, C++, Java, Cobol, PL/I, and other languages.

<sup>2</sup> Or other *artificial intelligence* techniques (including programming in *Prolog* or *Lisp*).

<sup>3</sup> Especially classes of objects in the application domain rather than just the data structure classes and user interface classes that are emphasized in OOP courses and textbooks.

<sup>4</sup> We also provide *systems analysis* services to help define the users' problem before the development phase.

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