



## 3 Open Positions for HiWi / Student Researchers at FhG IPSI

### Context of work

The AMBIENTE group at Fraunhofer IPSI has been prominently involved in Ubiquitous / Pervasive Computing research and in prototyping non-standard user-system interactions since 1997, resulting in several awards and publications in international journals such as Communications of the ACM and IEEE Computer.

Currently, we are involved in the Amigo project (Ambient Intelligence for the Networked Home Environment), where we focus on developing Intelligent User Services and novel applications, for example, within the domain of home information.

### Job description

One main focus of your work will be on implementing services, such as a context management service as well as reasoning components for activity recognition, and applications such as a Personal Context Diary. Your implementation work will make use of our cutting-edge infrastructure such as high-precision and real time ultra-wide band positioning technology as well as using brand new extensions to the .NET framework, as Microsoft research is one of partners in the project. The preferred implementation language will be C#, so you must have practical experience in C# / C++. Beyond that, the required skills are the following:

1 <sup>st</sup> Position	2 <sup>nd</sup> Position	3 <sup>rd</sup> Position
<ul style="list-style-type: none"><li>• Practical experience with MATLAB is a plus</li><li>• Theoretical and/or practical knowledge related to machine learning is a plus</li><li>• Practical experience with hardware is a plus</li><li>• Excellent English communication skills</li></ul>	<ul style="list-style-type: none"><li>• Interest in user-interface development</li><li>• Practical experience in SQL (MySQL and/or Microsoft SQL Server)</li><li>• Theoretical and/or practical knowledge related to data mining is a plus</li></ul>	<ul style="list-style-type: none"><li>• Practical experience in SQL (MySQL and/or Microsoft SQL Server)</li><li>• Familiar with Web Services</li><li>• General knowledge about Semantic Web (Ontologies, RDF, RDQL, SPARQL) is a plus</li><li>• Excellent English communication skills</li></ul>

### Contact

If you are interested in these topics, please apply via email to [mstikic@ipsi.fraunhofer.de](mailto:mstikic@ipsi.fraunhofer.de) and [prante@ipsi.fhg.de](mailto:prante@ipsi.fhg.de)

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