Programming of a machine-tool interface

Motivation
At the Institute for Machine Tools and Industrial Management (iwb), measurements are frequently carried out on machine tools. The iwb FRF tool is used to record vibrations. However, there is often also an interest in internal data of the machine control, for the recording of which a large number of tools are available. However, there is always the problem of synchronizing the data over time.

Objectives
The planned objectives include the implementation of a new interface to machine-tool controls to record internal CNC data. An existing COM component is to be integrated into the existing iwb FRF tool using a COM-enabled programming language such as C++, thus overcoming the synchronization problem.

Requirements
Personal commitment and knowledge of a COM capable programming language (C++, C#, ...) are required. First experiences in Python, MATLAB, MATLAB GUI programming and vibration analysis are desirable.

Contact
M. Sc. Johannes Ellinger
Research Group Machine Tools
johannes.ellinger@iwb.mw.tum.de
Tel.: 089 / 289 15588