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INTERNSHIP PROJECT

**DESIGN OF HARDWARE SYSTEMS
for
ROBOT PRODUCTION FACILITY**

August 2011

Protension Composites is a young engineering and manufacturing company located in Delft. We are specialists in the field of composite preforming technologies, which are based on the principles of filament winding. At Protension you will find the opportunity to be part of a young team of engineers and a dynamic work environment in which we together develop the next generation of composite manufacturing technologies.



For our new industrial robot prototype facility, we are developing several systems that are necessary for the effective use of the robot in both filament winding processes, as well as during other steps in manufacturing. Two internship positions are available:

1. Design, build and testing of a new fibre tension system

2. Design, build and testing of robot end-effectors

You will first design the hardware that must perfectly fit our prototype facility. Next, we will give you the chance to realise your design by building the actual hardware. Finally, your designs will be put to the test by integrating it into our robot processes.

Would you like to see your designs to be build and tested in an advanced industrial manufacturing environment? Please send your résumé to info@protension.eu or give us a call at **015-8200204**.

Jack Wetzels
Protension Composites