



Image: Mores Prachyabrued

SOFTWARE DEVELOPER WANTED!

2 months contract

**Salary grade H (or £250/
week for interns)**

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BIG

Bristol Interaction Group
big.cs.bris.ac.uk

The goal is to develop a piece of software to measure the graspability of an object. The soft will allow to

- * import 3D models of various objects (e.g. a phone)
- * import 3D models of human hands (flexible joints)
- * run a simulation of a hand hitting an object at different angles. In particular (1) adapting the finger joints position to "grasp" the objects ; (2) computing a metric to tell how good the object fits in the hand (e.g. size of contact area, forces applied); (3) allowing to perform the last two operations on several objects to determine which object has a better shape.

Language: no restrictions, e.g. maya + python / open framework openCV / unity / javascript

Requirements: the soft must be extendable (basis for further work) i.e. clean code structure, use external files, comments

Experience and skills:

- * Programming in 3D environment
- * Ability to adhere to standards, methodologies and good practices
- * Able to work well as a member of a project team
- * Analytical skills and problem solving capability

Qualifications: professional qualification or degree in computing, or have considerable vocational experience which demonstrates equivalent professional development.