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Stockton, Glynn

University Industry Collaboration: Research and enterprise activity within University of Huddersfield Product Design courses.

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University and Industry Collaboration

Research and enterprise activity within
University of Huddersfield
Product Design courses

Glynn Stockton  BSc (HONS)  PGCE  PGDip  MSc  FHEA

Research Team:
Dr Ertu Unver  BSc  MSc  PhD  PgCert  FHEA  AIED
Dr David Swann  MDes  PhD  FRSA  FHEA
Students:

In Module (Year 2)
Placement Year
Final Year Major Project
KTP
Post-graduation

Staff:

Research
Design
Facilities
Students: In Module (Year 2)

1

2

3  48 Week Paid Industry Placement

4
Wilkinson

Problem: Stacking clothes in the wardrobe.

Hang man

A cool hanger that separates the hangers.

I don't see hanging it on a shelf, could it go on the floor?
Concept 6 - Hangman

- Unique Design
- Can hold an entire outfit
- Injection moulded body so cheap to produce
- Comes in a pack of 3
- Aimed at a younger/family market
- Practical yet novelty design
Will be a simple, single piece of card with two holes cut so that it can fold over the product as a collar. This keeps it cheap to package and doesn't add any recycling issues.

The graphics will be clear showing the HangMan logo with the brand name above and a brief description of the product. On the back will have the bar code and a larger description.
Wilko Outfit Hangers Girls Pink x 3
£4.00
(6) In stock and ready to ship

1 Quantity ADD TO BASKET

Write the first review Follow this product

catalogue No: 0334028

Description Specification Delivery & Returns

The ingenious Wilko Girls Outfit Hangers come in a pack of three and are ideal for dressing up, wedding outfits and school uniforms. Each complete-outfit hanger holds four items – a shirt, a skirt, a tie and a pair of socks. Get organised the night before and make your mornings easier!
Students: Placement Year

1

2

3  48 Week Paid Industry Placement

4
Students: Final Year Major Project

1

2

3  48 Week Paid Industry Placement

4
Students: Final Year Major Project
Product Design

Transport Design

Postgraduate, MA 3DD, MA by Research, PhD
MA Postgraduate Dan Hughes – McGrail portrayal of Sir Patrick Stewart as Elizabethan Francis Bacon.
Students: Post-graduation
Students: Post-graduation – KTP

Knowledge Transfer Partnership

Graduate vacancies with a difference

Classic KTP Vacancy Advertisements

<table>
<thead>
<tr>
<th>Area</th>
<th>Info</th>
<th>Salary</th>
<th>Closing date</th>
<th>Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>East of England</td>
<td>KTP Associate (Embedded Systems Engineer)</td>
<td>£23,500 - £27,000</td>
<td>27/11/2014</td>
<td>Info (2836)</td>
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<tr>
<td>East of England</td>
<td>Polymer Gear Design Engineer</td>
<td>£22,000 - £28,500 per annum</td>
<td>28/11/2014</td>
<td>Info (2840)</td>
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<td>East of England</td>
<td>KTP ASSOCIATE – ULTRA THIN FILMS USING ATOMIC LAYER DEPOSITION (ALD)</td>
<td>£25,000 - £28,000 pa</td>
<td>15/12/2014</td>
<td>Info (2850)</td>
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<td>North East of England</td>
<td>Mechanical / Manufacturing Engineering vacancy to develop bespoke manufacturing platform</td>
<td>£21,000 - £24,000 per annum</td>
<td>26/11/2014</td>
<td>Info (2833)</td>
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<td>North East of England</td>
<td>Business Behaviour Analyst (KTP Associate)</td>
<td>£24,057</td>
<td>09/12/2014</td>
<td>Info (2799)</td>
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<td>North West of England</td>
<td>DEMENTIA COMMUNICATIONS FACILITATOR</td>
<td>£23,870-£25,451</td>
<td>12/12/2014</td>
<td>Info (2847)</td>
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<td>North West of England</td>
<td>SOCIAL DATA SCIENTIST</td>
<td>£21,170 - £21,960</td>
<td>12/12/2014</td>
<td>Info (2855)</td>
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<td>Scotland</td>
<td>Senior Data Scientist - KTP Associate</td>
<td>£32-35000 pa</td>
<td>27/11/2014</td>
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<td>Scotland</td>
<td>KTP Associate</td>
<td>£24,000</td>
<td>30/11/2014</td>
<td>Info (2859)</td>
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<td>Scotland</td>
<td>KTP Associate - Information and Records Management</td>
<td>£21,000-£25,000</td>
<td>01/12/2014</td>
<td>Info (2837)</td>
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<td>Scotland</td>
<td>KTP Associate - Business Development Officer</td>
<td>£25,000 - £27,000</td>
<td>01/12/2014</td>
<td>Info (2848)</td>
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</table>
Staff: Research

- Engineering Technology
- Architecture Urban Design
- Medical Research
- Global Disaster Resilience Centre
- Manufacturing Processes
- Digital Technologies
- Heritage Archaeology
- Fashion - Textile - Surface Design
- Art
To challenge this, Paxman engaged the expertise of researchers at two of the University of Huddersfield’s academic schools. Initially funded by an Innovation Voucher from Kirklees Council, Paxman started working with the School of Applied Sciences, using its cutting-edge cell biology techniques to help identify the mechanisms that govern patients’ variable responses to scalp cooling. Following additional funding from Knowledge Transfer Partnership (KTP) and Technology Strategy Board (TSB) grants and from the Collaborative Ventures Fund at the University, the School of Art, Design and Architecture then joined the team to investigate the design of the scalp cooling ca
Staff: Design

ABC Syringe
Dr. David Swann

Brittanic Watch
Rob Silkstone

Organ Care System
Glynn Stockton
Enterprise activities

- Kinetic Energy Storage Device, ESP Ltd
- Blister pack opener:
- Bob the Builder Tractor: Mackinnon & Saunders
- 3D Scanning: Mackinnon & Saunders
- Royal Coat of Arms, 3M Buckley
- Wheelie Bin Lock: JA Innovation
- Portable Potty: Simple Little Creations Ltd
- CNC Learning Software: Kirklees College
Interdisciplinary & International Impact

Rupert Till-Heritage, Music

Jill Townsley, Art

Engineering

Costume

Digital Doubles

Prof Bromley & Prof Ball

Business L'Oreal

International
Current & Future Projects planned:

- **UNICEF Innovation Lab**: portfolio of high impact products

- **Erasmus+**: design methodologies for prosthetic design using RP technologies

- **Others**: *Acoustic* products to reduce noise; Working prototypes of *animatronics* mechanical characters; *Low melting alloy* for forming sheets metals; Novel tooling methods for manufacturing low volume products, application of 3D Printing for tooling, Algorithmic 3D Modelling and visual programming such as using *Grasshopper* for exploring new shapes.
Staff: Facilities
Students and research project from 2003 onwards. Including the Future Factories Project in 2003, at ADA, University of Huddersfield where to research the direct digital manufacture of randomly generated and consumer controlled 3D models. This led to the “Automake Project” in collaboration with Sheffield Hallam and Falmouth Universities. Product/Transport students at Huddersfield used 3D printing for design realisation.
3M Buckley Innovation Centre
3D Printers at University of Huddersfield: 3M Business Innovation Centre

3M Business Innovation Centre has

EOS FORMIGA P 110
Laser Sintering Machine cost around £200k,
Similar Machines for metal sintering cost over £500k

A wide range of materials are available:
(PA 2200, PA 2201, PA 3200 GF, PrimeCast 101 & PA 2105)

Design for low-dust, ergonomic work conditions
Layer thickness (depending on material): 0.06 mm, 0.1 mm, 0.12 mm
Effective building volume: 200 mm x 250 mm x 330 mm
Building speed (depending on material): up to 20 mm/h
Laser type: CO₂, 30 W
Power consumption: 2 kW

Requires Compressed air supply and integrated Nitrogen generator

BIC offering free 1 day 3D printing and modelling services for local businesses through 2014!
Contact Susan Lipthorpe at 3D BIC
References:


Taylor, Andrew and Unver, Ertu (2012) Biomimetic radiolarian lamp prototypes


Unver, Ertu and Dean, Lionel Theodore (2011) Droplet Lamp Design exhibition

Taylor, Andrew, Harris, Joanne, Unver, Ertu and Lewis, Linda (2011) Exhibition of materials thinking and research: Digital 3D Modelling & Additive Prototypes of Surface Materials


References:


