BSI Education

Encouraging the next generation of standards experts
The UK worries about employability...

Institute of Directors (2007)
• 40% of members thought graduates were unprepared for the workplace.

Confederation of British Industry (2011)
• 82% of employers consider an individual’s employability skills as the most important factor during recruitment.
• 41% of employers favour STEM degrees
• 36% of employers feel STEM graduates lack employability skills

Guardian (2013)
• Fewer than 10% of students thought an understanding of business was a vital skill, compared to nearly 50% of employers.
The education sector responds with innovative, award winning ideas
But is there is a gap between what employers want... and what the sector *think* employers want?
BSI’s research suggests there may be...

“If standards are important to industry - students need to be made aware during their education - finding the appropriate time to fit this into the curriculum is critical. Many of the students I see have a very basic knowledge of industry at all let alone the standards we work to. The three basic standards I have mentioned should in my opinion form part of the study for anyone wishing an industrial role within manufacturing. This should be made available as part of the course and not an additional cost to the employer once the student has graduated.”

- Employer responding to a BIS supported research for BSI
Standards employers want graduates to know...

- **Fire safety** BS 9991, BS 9999
- **Accessibility to buildings for disabled people** BS 8300
- **Quality and management**: BS EN ISO 9001
- **Environmental Management** BS EN ISO 14001
- **Health and Safety** BS OHSAS 18002
- **Information security** BS ISO/IEC 27001
- **Risk Management** BS ISO 31000
- **Safety of machinery** BS EN 1005, BS EN 547, BS EN 614
- **Safety of physical handling** BS ISO 11228
- **Usability of IT systems** BS EN ISO 9241.
- **Electrical wiring** BS 7671
- **Security systems** BS 5013
- **Social responsibility** BS ISO 26000
- **Sustainability** BS EN 15978, BS EN 16309, BS ISO 15392, BS EN 15643, BS ISO 20121, BS 8900, BS 8904, BS 8905

So how do we support a large sector?
We use Cultural Webs

Research & Innovative Practice

**THE PARADIGM:** Standards are an underused channel for HEIs to accelerate research and innovation with high impact

- **Stories:** Simon Kemp & Laurie Taylor, Gill Whitney
- **Symbols:** Committee membership, Education Community membership, Kitemark, BSOL subs
- **Rituals and routines:** Standards Making PAS Certification Journals/peer review
- **Organisational Structures:** Vice Chancellors, Pro-VCs, Directors, Registrars, Researchers/staff
- **Power Structures:** HEFCE, (and regional equivalents) Research Councils BIS QAA
- **Control Systems:** REF Funding bidding processes QAA evaluations

Learning & Teaching

**THE PARADIGM:** Education about Standardization provides students with irreplaceable employability knowledge.

- **Stories:** Eujin Pei, Gill Whitney, Simon Kemp
- **Symbols:** Committee membership, Education Community membership, Kitemark, BSOL subs
- **Rituals and routines:** Curriculums, Lectures, Seminars, Distance learning, Learning games, Educational Videos
- **Organisational Structures:** Vice Chancellors, Pro-VCs, Registrars, Faculty Heads, Lecturers
- **Power Structures:** QAA, HEA, Professional Bodies, JBM (etc), Students
- **Control Systems:** QAA evaluations, Professional Bodies’ accreditation, Employability stats
Social Media
a BSI Education Community

Influencers

- Researchers
- Educators
- Innovative Practitioners

BSI Group
(incl non-standards areas)

- Manufacturing and Services
- Sustainability
- Governance and Risk
- Construction
and a constantly evolving portfolio of support tools

- Access to standards
- Speakers
- Learning Resources
- BEC Young Professionals Workshop
Students respond well

- “Knowledge of compliance to standards helps to anchor creativity in the real world”
- “Standardisation is the key for effective global business, standards are essential for effective communication”
- “Learning about standards is important as it gives you a template of how you should tackle appropriate activities within an organisation”
- “A background knowledge of working with and navigating standards was essential when transitioning to the workplace for an internship”

- Student responses to a BIS supported research for BSI
Newell Hampson-Jones
Education Development Manager
newell.hampson-jones@bsigroup.com