

Health Sector News

Training funding criteria clarified

The Department for Business, Innovation & Skills (BIS) has given more details on the availability of, and bidding criteria for, funds from one of three new £10 million funding streams unveiled in June (HEJ – August 2014) by the then Skills and Enterprise Minister, Matthew Hancock, to boost the UK engineering workforce.

As reported in HEJ's August 2014 issue, the Minister announced on 12 June that the Department would be making available £30 m to 'increase the supply of engineers', encourage more women into engineering, and address engineering skills shortages in smaller companies.

The Engineering Council is keen that potential bidders, and particularly engineering companies, are fully cognisant of the criteria for the £10 m funding made available for 'Improving Engineering Careers'. It explained: "The Government's Employer Ownership Engineering project funds are open to any company which directly employs people in

engineering occupations, where company growth and development are being held up by skills gaps or skills shortages in engineering. The focus will be on skills training outcomes that are additional to an employer's current activity. Training should target employees ranging from skilled operators to associate professionals, and those on pathways through to professional status. These skills equate to Levels 2-6 of the Qualifications and Credit Framework."

The Council explains that 'Engineering project funds' should be used for:

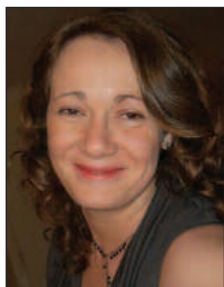
- 'Career progression'.
- 'Conversion training', allowing people to transfer from other occupations into engineering 'to fill skills gaps, and increase the talent pipeline'.

Dr Caroline Sudworth, head of Technicians and Apprenticeships at the Engineering Council (pictured), said: "Applicants (for funding) should choose what sort of training best meets these objectives. Training activity could focus on:

- Career progression training for associate professionals, technicians, and skilled operatives, to adapt to changing technologies or new business processes.
- Employers re-skilling, or recruiting people with allied qualifications or skills, to enter into, or return to, engineering.
- Supporting mid-career returners to come back to, or into, engineering occupations.
- Pathways into Technician or engineering professions. This could include opportunities for employees to achieve chartered status."

The Engineering Council points out, however, that there are 'limitations on the sort of training this fund can support', adding: "Funding of first and postgraduate degrees, apprenticeships, and traineeships programmes, where funding can be obtained through existing funding channels, will not be in scope."

For more details, visit:
<http://tinyurl.com/lcmzqu9>



Cover Story

CHP-based system to bring significant savings at Good Hope

Heart of England NHS Foundation Trust now has a successful carbon and energy saving scheme in operation at Good Hope Hospital in the West Midlands, with a combined heat and power (CHP) system as its focal point.

Good Hope Hospital is a 600-bed acute and general hospital in Sutton Coldfield. With a 35-year-old energy centre, the hospital was in need of a new facility to improve its carbon and energy performance. Staff chose Dalkia for a self-funding solution 'with guaranteed performance over the contract term'.

The 15-year, £5.4 million contract has seen the healthcare facility's energy plant upgraded with a new CHP unit that Cogenco, Dalkia's packaged CHP subsidiary, says will cut yearly CO₂ emissions by 2,692 tonnes,

bringing 'guaranteed savings' of £477,000 per annum, and a further £42,700 in operational savings.

The installation at Good Hope Hospital comprises a 1,166 kWe CHP plant from Cogenco, a 5,000 kg/hour fired 820 kg/hour waste heat combination boiler, a CHP heat recovery system, and associated infrastructure, including a complete upgrade of the burner controls for two existing boilers.

Annually, the CHP engine unit will provide 9,400 MW/hour of electricity and 9,100 MW/hour of heat, using natural gas as a primary fuel source. The heat produced as a result of the electrical generation process is recovered by the CHP system and conducted to the new waste heat boiler, where it is used to produce steam and low temperature hot water for heating and domestic hot water top-ups.



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UV-C light weapon in battle against HAIs

The Carillion Health cleaning team at the Royal London Hospital is piloting 'an innovative infection control solution' via a six-week trial featuring a UV-C light 'triple tower technology system' reportedly never before used in the UK.

Carillion's Cleaning Centre of Excellence's 'extensive research and investigation' into using UV-C disinfection to control healthcare-associate infections (HAIs) identified a new system that the company says 'overcomes the shortcomings' of existing UV-C disinfectors. Carillion is working with the US manufacturer, Surfacide, to trial its automatic, non-touch UV-C room disinfection system in the UK. The technology allows all areas of the patient environment to be disinfected, 'overcoming obstacles such as shadows and distance inherent with single-emitter UV-C systems'.

Carillion said: "Proven to control multiple drug-resistant organisms including *C. difficile*, MRSA, VRE, CRE, and *Acinetobacter*, the system sees three articulating UV-C towers placed in a



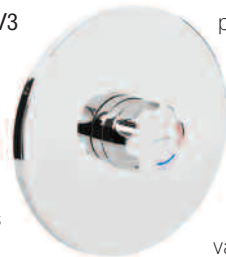
patient room equipped with laser validation to ensure that the area is completely covered during a 30-minute disinfection process. Evidence from the US demonstrates that this process significantly reduces HAI risk."

During the trial Carillion will capture, collate, and analyse data based on infection log reductions, time per application, and exposure times needed for efficacy, before determining the technology's effectiveness with a view to a wider 'roll-out' across its contracts.

Easy-to-install mini shower valves

A new range of TMV2 and TMV3 Opac mini shower valves for commercial applications from Bristan – available in exposed and concealed versions – is designed to simplify installation and maintenance.

The exposed version features adjustable elbows, with short (110 mm-130 mm) and long (135 mm-155 mm) sets supplied at no extra cost. This adjustability enables the centre section to range from 110-155 mm, which Bristan says makes the valve 'particularly straightforward to install' in retrofit applications. The company said: "As the



product can be quickly and simply altered to fit any existing fixing holes, time and hassle are reduced, and the need for re-tiling eliminated."

On the concealed version, a removable steel cover plate provides easy access to the valve, all serviceable parts, and the integral isolation. The system can thus be flushed and cleaned from the front. Easy-clean filters further aid maintenance.

There is a choice of wheel or lever handles, both with a single sequential control for temperature/flow.

News in brief

Work at Height training

Six months after opening its purpose-built training centre at its Sheffield headquarters, specialist fall protection company, Eurosafe Solutions, has released a new training brochure detailing its extensive on and off-site training services to anyone involved with Work at Height. The 12-page brochure presents a complete overview of its portfolio of courses, which range from Horizontal and Vertical Fall Protection equipment training, to Rescue from Height and Advanced Rooftop safety. Bespoke courses are also available.

Bright future for Trumpf Medical

Trumpf Medical Systems is now part of Hill-Rom Holdings, following an acquisition process that closed on 1 August, placing the company 'at the heart of a group completely focused on medical technology'. In the UK, Trumpf Medical Systems claims to be 'a technology leader' in LED theatre lighting and pendant systems. This year it has also 're-focused' on its operating table business, introducing the new TruSystem 7000, 'a table without limits easily adaptable to suit every surgical procedure'.

Challenging and diverse role

Wireless nurse call specialist, Courtney-Thorne, has appointed Duncan Crocker as its UK engineering and services manager. An experienced engineering manager, he has a background in both electrical and electronic engineering, and operational and business management roles. Earlier in his career he gained 10 years' space industry experience, as part of the European Space Agency, working as a component engineer/customer source inspector specialising in 'hi-rel' (high reliability) component engineering for satellite construction and launch vehicles.

Healthcare in the home

Virgin Media Business is to supply community health provider, Sirona, with 4G mobile connectivity, in partnership with EE, to support the delivery of home healthcare to patients across the UK. The contract will enable healthcare workers around the country to access patient records remotely, and work more flexibly in the community. The £500,000 deal is part of a complete upgrade to Sirona's ICT infrastructure to support the introduction of a range of telehealth services.

Rosenheim demolition at UCLH

Capita has been appointed to project manage the demolition of the University College London Hospitals NHS Foundation Trust's Rosenheim Building in central London.

The £2m demolition is the first stage in the construction of a new '£150m-plus' centre, designed by London-based healthcare architects, Scott Tallon Walker Architects (in association with Edward Williams Architects), and to be procured

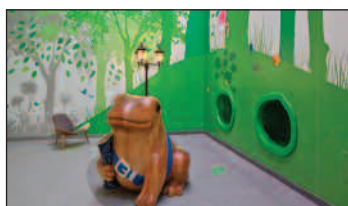
as a design-build contract. The centre will include the UK's first Proton Beam Therapy (PBT) facility, in addition to integrating cancer and surgical services with inpatient beds and short-stay operating theatres over five floors, above the PBT suite, situated a further four storeys below ground.

The demolition works will start this autumn, and are set to be completed by early next year.

Woodland walling for children's hospital

Altro Whiterock's Digiclad digitally printed wall cladding has helped create a particularly imaginative and eye-catching interior in the main lobby at the recently expanded Nationwide Children's Hospital in Columbus, Ohio, where its depiction of brightly-coloured scenes of woodland life, including flying birds, butterflies, wildflowers, trees, and falling leaves, has proven popular with young patients.

Altro explained: "Throughout the building, elements from nature are depicted in wall graphics and flooring



patterns, but it is in the hospital's main lobby where creativity really runs riot. The uplifting double-height atrium draws in daylight, and provides calming views of the gardens outside.

Patients and visitors continue along the lobby and into the 'Magic Forest' – a space filled with sculptural trees and large and engaging native wooden animals. Birdsong and other woodland sounds greet them as on the way." There are plans to introduce the 'forest' design into other buildings as the rest of the hospital campus is gradually upgraded.

Fire alarm training academy

Fire alarm monitoring solutions specialist, Drax Technology, has launched a new Training Academy at its Letchworth headquarters.

It says the purpose-built facility will provide channel partners with the practical skills to install and maintain its latest generation of alarm monitoring systems, 'enabling end-users to demonstrate compliance with all regulatory requirements'.

The new facility's

classroom environment delivers hands-on training on Drax Technology's alarm monitoring solutions and connectivity with fire panels from all the leading manufacturers. 'Customised for individual reseller partners to focus on specific manufacturers', the courses cover topics ranging from alarm management principles and operator training, to specialist installation programmes.



Diary dates

10 Sept: IHEEM South West Branch evening seminar presentation, 'Energy efficiency, power generation, steam quality and assurance', by Spirax Sarco. Eastwood Park, Falfield, Gloucestershire. T: 0117 317 3200. Email: john.ford@gleeds.co.uk

17 Sept: IHEEM Northern Ireland Branch seminar presentation, 'Medical supply units; a bedside matter', by Cableflow and Synergy Medical, followed by Annual Business Meeting. The Dunsilly Hotel, Antrim. T: 02890 801352. Email: shaun.mccook@belfast.hscni.net

25 Sept: IHEEM North West branch seminar presentation, 'Passive fire solutions and third-party accredited passive fire protection installation services, including developing fire damper technology', by Checkmate Fire Solutions. Tameside General Hospital. T: 01457 867637. Email: prtansej@googlemail.com

28-30 Sept: Canadian Healthcare Engineering Society 34th Annual Conference. Saint John Trade & Convention Centre, Saint John, New Brunswick. T: +1 613 531 2661. www.ches.org

7-8 Oct: Healthcare Estates 2014. Manchester Central. T: +44 (0)1892 518877. www.healthcare-estates.com

12-16 Oct: IFHE Congress 2014, 'Healthcare facilities in times of radical changes'. UCA University, Puerto Madero, Buenos Aires. www.ifhe2014buenosaires.com.ar

12-15 Nov: Medica 2014. Messe Düsseldorf. T: +49 (0)211 4560-01; www.messe-duesseldorf.com

14-15 Nov: Sixth annual Women's Engineering Society (WES) Student Conference 2014, 'Engineering Inspiration'. Aston University. T: 01438 765506. www.conference.wes.org.uk/eng-inspiration14

26-27 Nov: BRE 'Resilience14' Conference and Exhibition event, 'Protecting against, and mitigating the impact of, climate change'. Olympia London. T: 01923 664319. www.resilience14.com/index.jsp

water hygiene courses

is your water safe? are you fully compliant?

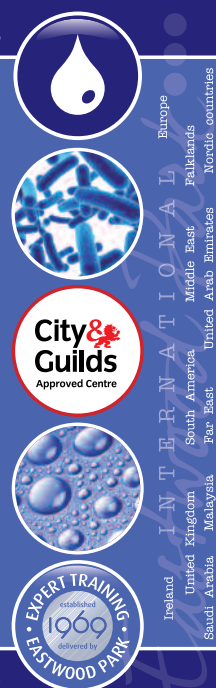
Our expert trainers deliver water hygiene courses at our internationally renowned training centre, or at your site. Designed for all - from CPs, APs/RPs and AEs to CEO level - training covers the very latest changes to guidelines & compliance policies including...

- Practical legionella control in building water systems | water risk assessment
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Teamwork on thirteen theatre project

Thirteen operating theatres – eight at Watford General Hospital, and five at St Albans City Hospital – have been upgraded by Starkstrom after the West Hertfordshire Hospitals NHS Trust successfully bid for special funds from the Department of Health.

Starkstrom said: "Despite its complexity, the project was completed successfully within a short timeframe. Work was often restricted to short periods, as all the theatres were still operational." As each theatre was completed, Starkstrom trained the clinical teams to ensure all staff were comfortable with the new equipment.

Of the eight Watford 'ORs', four received a complete refurbishment, including lights, pendants, theatre control panels, isolated and uninterruptible power supplies, and illuminated warning signs. Two were also equipped with 'the latest in digital technology for ORs' – Starkstrom's VisionOR. Here, the 'seamless integration' between products was undertaken by Starkstrom's audio-visual integration team. All equipment was from Starkstrom's S-equiP solution.



New therapy wing for stammering children

Architecture practice, Barr Gazetas, has designed a new wing for The Michael Palin Centre for Stammering Children in Clerkenwell, reportedly London's only facility of its kind.

The architects delivered a 'simple, yet fully equipped' 45 m² extension, constructed by Cornish Builders, that will double the space for speech and language therapy sessions 'on a small budget of £250,000'.

"The new wing responds to the growing needs of a facility named after the Monty Python member, whose father had a stammer all his life," the practice explains.

Externally, Barr Gazetas wanted the new wing to complement its surroundings. The traditional banded brick elevation 'subtly references' the adjacent Grade 1 listed church of Our Most Holy Redeemer. Director, Alistair Barr, who has personal experience of stammering, led the project, 'with the premise that good design would promote calm in the children and their parents'. He attended parent/child



Courtesy of Rob Baker Ashton

meetings, and 'followed every step of the design and construction process to ensure the best possible space was provided for the young attendees'.

Barr Gazetas added: "The resulting warm, calming space significantly enriches the therapy process: large windows allow in generous amounts of natural light, acoustic plasterboards make for a quiet environment, and a lively colour palette connects with the young users."

'Cost-effective' rentable buildings

Elliott has unveiled 'a cost-effective, rentable healthcare building solution'.

The company said: "Offered with flexible rental terms, the high quality modular buildings can integrate seamlessly with existing buildings, or create new, standalone facilities. The cost is a fraction of that of a permanent building, with handover within eight weeks."

Supplied as a turnkey solution, the buildings can be specified for use as a pre-assessment centre for Accident & Emergency, a temporary GPs' surgery, day care blocks, smaller ward blocks, or resuscitation bays.

Elliott added: "Availability in a wide

range of sizes and formats means they can be also used to support endoscopy and theatre services, or, with minor alterations, for phlebotomy, chemotherapy, and renal therapies."

The company also offers a modular outpatient block incorporating consulting rooms, treatment rooms, offices, a reception, and a utility area.



Cartridges made under cleanroom conditions

Global water treatment and filtration provider, Envirogen Water Technologies, parent company of Environmental Water Systems, has significantly extended its consumables range.

Carrying the Envirogen and Fluxa brand names, the company's expanded range of cartridges (the cartridges are used in markets including healthcare, food and beverage, and oil and gas) offers 'long

life, high efficiency, and low operating cost'. Harnessing several technologies – including depth and membrane media – the cartridges range in micron rating from 0.2 micron microbial up to 1,000 micron in both nominal and absolute ratings, and come in standard industry lengths with end fittings to meet most standard filter designs for a secure fit into both existing and new filtration systems.

Manufactured under cleanroom conditions, and supported, where necessary, with product validation guides, each is quality control checked, tested, and guaranteed, to international standards (EU and FDA). There is full traceability back to the raw materials, and products are validated and tested using a modified single pass test methodology with standard test dust.