

[News story: Government proposals on children and young people's mental health](#)

The government has [published proposals to improve mental health support for children and young people in England](#). Over £300 million has been made available to fund them.

[The government is asking people for their views on the planned measures, which are set out in a green paper](#). The measures include:

- encouraging every school and college to have a 'designated senior mental health lead'
- setting up mental health support teams working with schools, to give children and young people earlier access to services
- piloting a 4-week waiting time for NHS children and young people's mental health services

This short video describes the main proposals in the green paper.

[Children and young people's mental health green paper video](#)

Other proposals in the green paper include:

- a new working group to look at mental health support for 16 to 25-year-olds
- a report by the Chief Medical Officer on the impact that technology has on children and young people's mental health, to be produced in 2018

The consultation on the green paper will run for 13 weeks until 2 March 2018.

[Press release: Improving efficiency at mine water treatment schemes](#)

The Coal Authority, which manages Britain's coal mining legacy, employs contractors to clean water cascades and pipework across its 75 mine water treatment sites on a regular basis.

The manual 'wash and brush-ups' are needed to prevent a build-up of iron solids (ochre) that are produced as part of the treatment process. The ochre clogs up the system and reduces the effectiveness of the treatment scheme that pump the water out from disused coal mines.

In a move to reduce costs, the Coal Authority is working with Dr Maria Romero-Gonzalez and her research group in the Department of Geography at the University of Sheffield, in a 6 month trial of new super hydrophobic materials that will aim to repel the ochre and prevent it from clogging up the treatment systems.

“Hydrophobic materials are nothing new,” explained Dr Chris Satterley, Technical Research and Development Manager for the Coal Authority. “But the most recent generation of super hydrophobic materials are now available commercially and we want to see whether they will help us to improve the efficiency of our operations.

“Currently we need to regularly remove the build-up of ochre, which obstructs the process of the schemes. But if this simple process works, it could be a significant development for our on-going maintenance programme.”

Various hydrophobic materials were tested in laboratory conditions by Maria and her team and 2 were selected to be used on site at the A Winning mine water treatment scheme in Derbyshire.

“It worked very well in the laboratory but now we need to see if it is just as effective out in the open and on site,” added Chris. “Initial observations show that the coating is working and is repelling large solids and ochre flocs. But it is still early days and we will be working closely with our University of Sheffield colleagues to see how it works over a longer period of time.”

The mine water treatment schemes run by the Coal Authority are all individual and depend on the amount of water being pumped out of disused coal mines and the local geology. Typically, they comprise of water cascades, a series of settlement lagoons and reed beds. They treat around 122 billion litres of water each year and prevent 4,000 tonnes of iron solids from entering local watercourses and also protect important sources of drinking water for local communities.

At the treatment scheme located at the site of the former Blackwell A Winning pit at South Normanton, there are 4 water cascades. For the trial, one was fully cleaned and coated for testing, a second has also been cleaned to act as a control and the remaining 2 are continuing under the current maintenance regime for comparison.

The 4 water cascades at the mine water treatment scheme

Further testing and studies will also be carried out on a series of concrete slabs installed in the cascades. One sample will be retrieved every week for the first month followed by monthly sampling for the remainder of the 6 month trial.

Dr Maria Romero-Gonzalez, Director of the Environmental Science Programme at the University of Sheffield, said: “This is a unique opportunity to study the durability and performance of the coatings under a variety of weather conditions.

“We will use electron microscopy and other surface analysis techniques to investigate the efficiency of the coatings at surface level. This will help us to assess how good the coating is and evaluate its application for treating ochre accumulation. The results will allow us to estimate the technical and economic benefits of using coatings for treating mine water, providing the Coal Authority with innovative solutions for the future.”

[News story: Eleven bids for £15m Northern Cultural Regeneration Fund](#)

Eleven towns and cities from across Northern England have bid for a share of a new £15 million fund to help build a lasting regional legacy from the Great Exhibition of the North.

The Northern Cultural Regeneration Fund will make grants of up to £4 million available to support major culture and tech capital projects.

The bids include the redevelopment of a former cinema into a live music venue, building four giant brick towers and creating the world’s biggest digital artwork.

Secretary of State for Digital, Culture, Media and Sport Karen Bradley said:

“These hugely exciting bids demonstrate the scale of cultural ambition across the region, and reflect the great diversity of Northern towns and cities. This £15 million fund will mean that as many people as possible benefit from the Great Exhibition of the North and it is fantastic that so many communities have recognised the transformative potential of culture, design and innovation.”

The first round of bids have been coordinated by Local Enterprise Partnerships in Cheshire and Warrington, Cumbria, Greater Manchester, Humber, Lancashire, Leeds City Region, Liverpool City Region, North East, Sheffield City Region, Tees Valley, York and North Yorkshire and East Riding.

The bids are:

- Cheshire and Warrington: A bid to create a world class cultural centre for children, young people and their families in Ellesmere Port, home of the critically acclaimed Action Transport Theatre.
- Cumbria: A bid to recognise and celebrate the contribution the World Heritage Lake District makes to the North of England through capital investment in Windermere Jetty, Dove Cottage and the Wordsworth Museum, and Abbot Hall Art Gallery and Museum.

- Greater Manchester: A bid to create a landmark young people's creative venue in Rochdale, providing performing and digital arts participation, performance, production and training.
- Humber: A bid to create the world's biggest digital artwork, using the Humber Bridge as a canvas on which to install over 70,000 individually controllable LED lights.
- Lancashire: A bid to create The Amuseum – Britain's first museum telling the story of British popular entertainment and Blackpool's role in one of UK's greatest creative industries.
- Leeds City Region: A bid to transform the former Bradford Odeon cinema into a 4,000 capacity live music, entertainment and events venue.
- Liverpool City Region: A bid to build on the success of Eureka! The National Children's Museum in Halifax by creating Eureka! Merseyside, a new cultural attraction on the Wirral waterfront to inspire young people to explore science, technology, engineering, arts and maths.
- North East: A bid to establish a new cultural attraction in Sunderland – 'National Centre for Imagination' – focusing on young people's creativity and imagination, including an institute of performing arts.
- Sheffield City Region: A bid for a major public art project in Sheffield, entitled Onwards and Upwards, that will comprise of a mile-long trail of four sculptural red chimneys to replace the demolished Tinsley cooling towers.
- Tees Valley: A bid to develop a major railway heritage visitor attraction in Tees Valley as part of a wider programme to create a 'Railway Heritage Quarter' and protect and conserve the Stockton & Darlington Railway.
- York and North Yorkshire and East Riding: A bid for a project, entitled Constellations: Illuminating Yorkshire's Coast, to create landmark light installations in six key locations on the North Yorkshire coast.

The fund will boost the Northern Powerhouse and build on the impact of next year's Great Exhibition of the North. Held in Newcastle and Gateshead next summer, the free family-friendly exhibition will showcase the best of Northern art, design and innovation and is set to be the biggest event in 2018.

The immersive exhibition – supported by £5 million of government funding –

will engage communities and businesses from across the region, and promote the bustling and thriving area to the world.

Successful bids to the Northern Cultural Regeneration Fund will encourage sustainable cultural and creative regeneration in the North of England and benefit areas that have historically had low levels of cultural and creative investment. The successful projects will be announced in March 2018.

Press release: UKHO Apprentice wins Bridgwater and Taunton College Apprenticeship Award

Sophie Hodson has won the 'Apprentice Champion' award at Bridgwater and Taunton College's Celebration of Apprenticeships Awards, which was held on 29 November at the college's McMillan Theatre.

UKHO partners with the college to deliver their apprenticeships and was the main sponsor of the event, which saw 21 of the college's 2500 apprentices making it to the final.

Sophie (Finance Assistant and Apprentice) won the 'Apprentice Champion' award, and was also a finalist in the 'Apprentice of the Year' category.

Catherine Porter, Agency & Cost Financial Controller at the UKHO and Sophie's line manager, said:

"Sophie has impressed us all since the day that she joined us. She had never used our financial system before but picked this up very quickly which is key in our roles. Working with her is a delight as she has got a lovely personality and is always proactive. She is forming good relationships around the business and the internal stakeholders that she interacts with are always extremely positive about her. This area is new to her but her commitment to the job and team is commendable."

Amy Carrillo, Head of Human Resources at the UKHO, was a guest speaker at the awards. Speaking about the importance of apprenticeships to the UKHO, Amy said:

"We have found that apprenticeships have helped us address skill shortages, particularly in the digital field where there is a nationwide skill shortage. We have 20 digital apprenticeships covering cyber security, IT professions, software testing and data analysis. These apprentices are helping us to build a more sustainable future for our digital transition.

We are harnessing new talent and bringing in fresh ideas. Not only that, we

are also using apprenticeships to re-train or upskill existing team members.

We have three Data Analyst apprentices that were already part of our production team and have 11 Management apprentices from our teams.

In addition, the UKHO are offering 12 professional apprenticeships across the organisation in finance, HR, procurement, marketing, customer services and business administration up to level 5.”

[News story: New charging systems for electric vehicles: apply for contracts](#)

Organisations can apply for a share of £80,000 to examine how low-carbon and smart electric vehicle charging infrastructure could be introduced in Edinburgh.

[The City of Edinburgh Council](#) has up to £80,000 to invest in studies that look at how smart energy systems and renewable energy could be integrated into a future mass-market electric vehicle charging infrastructure.

A further £200,000 could be available to prototype the best ideas in a second phase of the competition.

Funding for this competition is under the SBRI (Small Business Research Initiative) programme.

Creating an integrated charging infrastructure

[Scottish Government](#) has set out new targets for carbon reduction and electric vehicles. This includes phasing out the need for diesel and petrol vehicles by 2032 and significantly expanding the country's charging network.

In this competition, Edinburgh is seeking projects that combine on-site generation of renewable energy, battery storage and smart meters with innovative software systems to control everything.

Its aim is to have financially self-sustaining, closed-loop vehicle charging systems, with smart grid and vehicle-to-grid capabilities.

Competition information

- the competition opens on 4 December 2017, and the deadline for registration is midday on 7 February 2018
- SBRI is open to any organisation that can demonstrate a route to market for its idea

- we expect phase 1 contracts to be worth up to £20,000 and to last up to 6 months
- phase 2 contracts could be worth up to £100,000
- successful projects will attract 100% funded development contracts