



CRITICAL PATHS

Powering a new generation

What is Critical Paths?

A new way to promote the nuclear industry to the younger generation

Critical Paths will be a resource pack for teachers and volunteers, to help them communicate information about the nuclear industry, and the job opportunities available within it, directly to school pupils aged 11-14. It will be freely available online and will have an associated website and social media presence. *inNUvate Ltd.* plans to collaborate with teachers and industrial sponsors to develop resources that are in line with the national curriculum and accurately reflect the industry. *inNUvate Ltd.*'s members will present *Critical Paths* in schools at the start of the 2015/2016 school year. *Critical Paths* will cover both technical and non technical topics and will contain resources including:

- ❖ An introduction for teachers/volunteers – explaining the nuclear industry and why it is important to present it to pupils
- ❖ Lesson plans for teachers/volunteers to use in the classroom. These will have suggestions for if the teacher/volunteer has e.g. 1 hour/1 afternoon/1 day to fill and will include use of the following resources:
 - PowerPoint presentations on technical nuclear basics and less technically focussed topics.
 - 'Workshop' plans - debates, activities etc. relating to nuclear, including information about real peoples' jobs.
 - Assignments that teachers can set as homework or use in class.
- ❖ Careers information
- ❖ Useful links/further reading sheet
- ❖ Feedback questionnaires (to be completed by the pupils before and after the class and measure how successful it is).

Why is Critical Paths being developed?

- ❖ *Critical Paths* is being produced by 10 members of the nucleargraduates programme who have set up the company *inNUvate Ltd.* and are passionate about making the nuclear industry more accessible for young people.
- ❖ There is an increasing skills gap in the nuclear industry, due to the aging workforce and increasing amount of work.
- ❖ Engineering UK released a report in 2014 recommending that there needs to be more career inspiration for young people and that more collaboration is required between schools and industry.
- ❖ As STEM ambassadors, we have seen first hand that pupils are not aware of the opportunities within our industry. We are committed to changing this through the production of this unique product.

What help is required?

Critical Paths will be most effective if it builds on feedback from those that will be using the product. Would you be willing to:

- ❖ Tell us what you think would be best to include in this resource pack.
- ❖ Share your experience with us to ensure that *Critical Paths* is effective and will be useful to teachers and well received by pupils.
- ❖ Help us to pilot the material that is developed by either:
 - a) Having members of *inNUvate Ltd.* come to your school to present the material.
 - b) Using the pilot version of *Critical Paths* and providing us with feedback.
- ❖ Share it with fellow teachers/volunteers.

If you are interested in supporting *Critical Paths* in any way, please contact us through one of the routes below.

Charitable support

- ❖ *inNUvate Ltd.* is entirely not for profit. All profits from *Critical Paths* will be donated to *The Lightyear Foundation* (<http://www.lightyearfoundation.org>).
- ❖ *The Lightyear Foundation* shares our aim of promoting science and engineering subjects to school children.
- ❖ It is a charity devoted to changing the public perception of science through the promotion of scientific knowledge and understanding, innovation and encouraging people to be curious about the world around them.



criticalpathsuk@gmail.com



[@CriticalPathsUK](https://twitter.com/CriticalPathsUK)



[CriticalPathsUK](https://www.facebook.com/CriticalPathsUK)



LinkedIn Group

All profits will be donated to:

inNUvate

nucleargraduates



lightyear foundation