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DELIVERABLE D5.3

Career Case Studies

Lead Beneficiary: UNIVLEEDS

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СО	Confidential, only for Beneficiaries of the A-CINCH project			



Version control table

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number			
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1 INTRODUCTION

A major concern within the nuclear sector is the loss of personnel with the specialized knowledge required for key roles and the apparent lack of interest in the sector from the younger generation. A lack of awareness of the variety of careers available within the sector may play a role in this. To help address this lack of awareness we have produced a series of video career case studies to highlight the careers / roles available in the nuclear sector.



2 METHODOLOGY

To identify potential participants for the case studies we conducted a survey on careers in NRC – see appendix 1. The survey was distributed via a number of different routes:

- Relevant networks, societies and industry bodies
- Newsletters
- Social media.

To ascertain which format and where students prefer to obtain their career information we carried out a sample survey of young people – see appendix 2. This was distributed directly to selected schools and via newsletters.

To capture the information that would be of interest to those wanting to discover more about careers in the nuclear sector we used a list of questions that could be used when recording the videos – see Appendix 3. These were sent to the interviewees before filming.

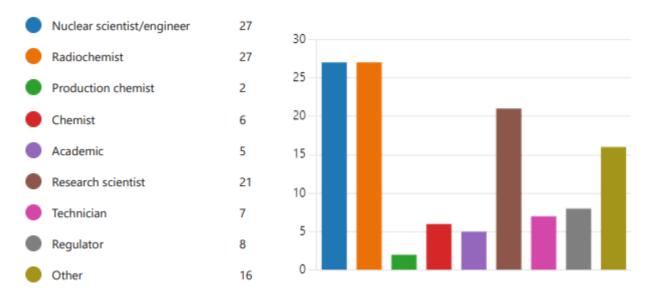
We endeavored to get a good mix of videos by selecting participants from different occupation areas, career stage and organizations.



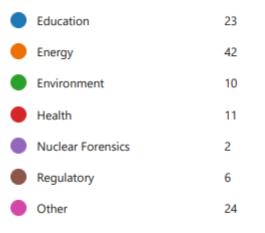
3 RESULTS

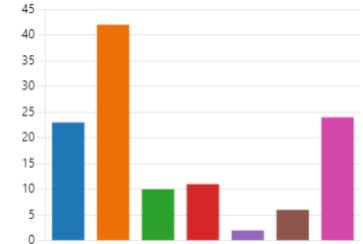
Nuclear and Radiochemistry Careers Survey

We received 119 responses to the NRC careers survey.



The top three occupations of the respondents were nuclear scientist/engineer, radiochemist and research scientist with a large percentage coming from the Energy sector







The majority were qualified to PhD level.





The full results are given in Appendix 4.

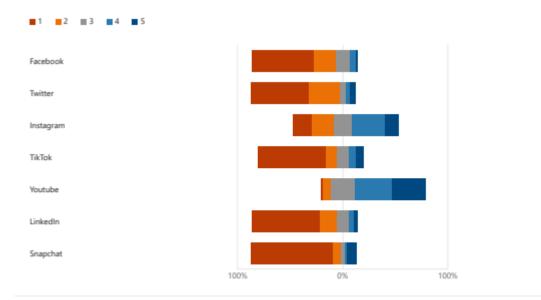
Young Persons Career Information Survey

We received 55 responses for the careers information survey.

The respondents look for most of their career information online with YouTube and Instagram being the most influential platforms.



Please rate how much each of these platforms influence you, with 1 being the not influential at all and 5 being very influential.





Over half would consider attending a summer school/course to help inform career choice.

The full results are given in Appendix 5.

Case study videos

We recorded both in-person and online interviews for the career videos. We also asked some participants to self-record. We added sub-titles to the videos to improve accessibility. We also added a background soundtrack to make the videos more engaging.

We have produced a webpage template for each video – see Appendix 6 – which includes:

- short written biography & photo
- embedded case study video
- relevant links.

Table 1 gives a summary of videos recorded to date.

Job Title	Organisation	Country
Assurance Specialist	Nuclear Waste Services	UK
Degree Apprentice	Sellafield	UK
Technology Manager	Sellafield	UK
Experimental Officer in Aqueous Geochemistry	University of Sheffield	UK
Head of Decommissioning	Cyclife UK	France/UK
Instrument Technician	Diamond Light Source	UK
Laboratory Fellow	Idaho National Laboratory	USA
Nuclear Services Consultant	Amphos 21	Spain
PhD Student	University of Leeds	UK
PhD Student	Belgian Centre for Nuclear Research	Belgium
PhD Student	Chalmers University of Technology	Sweden
PhD Student	University of Leeds	UK
PhD Student	University of Southampton	UK
PhD Student	CEA	France
Postdoctoral Research Associate	University of Leeds	UK
Radiochemistry Laboratory Analyst	CEFAS	UK
Reactor Chemistry Modeller	NNL + Rolls Royce	UK
Safeguarding and Accountancy Degree Apprentice	Sellafield	UK
Sellafield Business Analytics Degree Apprentice	Sellafield	UK
Senior Nuclear Regulator	Environment Agency	UK
Senior Nuclear Safety Consultant	Abbott Risk Consultants	UK
Senior Radioactive Waste Management Consultant	TUV-SUD	UK
Undergraduate Student	University of Leeds	UK

The videos may be accessed via the CINCH Hub.



Nuclear and Radiochemistry Careers survey

The Augmented CINCH project (<u>https://www.cinch-project.eu/</u>) aims to promote and increase awareness of and interest in careers in the field of nuclear and radiochemistry (NRC). To this end we are gathering information about people currently employed in NRC and will be producing a series of career case studies which we hope will be informative to students, parents and teachers.

We should be most grateful if you would take a few minutes to complete the following survey. The results will be summarized in a report which will be available on the project website.

Many thanks in advance, Lois and Daisy

By submitting a response to this survey, you consent to the processing of your response. The data will be stored for the duration of the project (until September 2023) and you have the right to withdraw your response at any point during this time without giving a reason.

1. How would you best describe your current occupation

\bigcirc	Nuclear scientist/engineer
\bigcirc	Radiochemist
\bigcirc	Production chemist
\bigcirc	Chemist
\bigcirc	Academic
\bigcirc	Research scientist
\bigcirc	Technician
\bigcirc	Regulator

2. In which sector do you work?

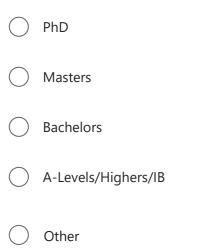
Other

(

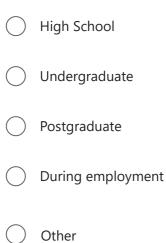
\bigcirc	Education
\bigcirc	Energy
\bigcirc	Environment
\bigcirc	Health
\bigcirc	Nuclear Forensics
\bigcirc	Regulatory

Other

3. What is your highest level of education?



4. At what age/career stage did you first become interested in Nuclear and Radiochemistry?



5. How do you keep your knowledge of Nuclear and Radiochemistry up to date? Tick all that apply

Attending conferences
Attending courses
Attending workshops
Online training
Online information sources
Other

6. Are you aware of the CINCH projects and the educational resources available?

) Yes

🔵 No

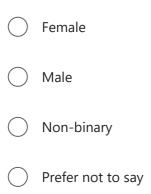
No but I would like to receive information on the resources available

- 7. What is your age range?
 - 18-24
 25-34
 35-44
 - 45-54
 - 55-64
 - O 65 or over
 - O prefer not to say

- 8. In which country do you work?
 - Austria Belgium (Bulgaria (Croatia ()Cyprus (Czechia (Denmark (Estonia ()Finland (France ()Germany (Greece (Hungary Ireland Italy Latvia Lithuania Luxembourg Malta

) Netherlands

9. What is your gender?



10. Would you be prepared to be contacted to provide further information about your role and career to date?

\bigcirc	Yes
\bigcirc	

) No

11. Name

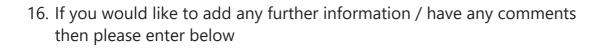


12. Organisation

13. Job Title

14. Country

15. Email



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Careers information survey

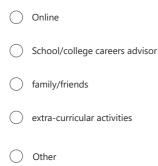
The Augmented CINCH project (<u>https://www.cinch-project.eu/</u>) aims to promote and increase awareness of and interest in careers in the field of nuclear and radiochemistry (NRC). To this end we are gathering information about how young people are influenced and how they access their careers information to allow us to produce effective and useful resources.

We should be most grateful if you would take a few minutes to complete the following survey.

Many thanks in advance, Lois and Daisy

By submitting a response to this survey, you consent to the processing of your response. The data will be stored for the duration of the project (until September 2023) and you have the right to withdraw your response at any point during this time without giving a reason.

1. Where do you find the most information for careers advice/support?



2. Please rate how much each of these platforms influence you, with 1 being the not influential at all and 5 being very influential.

	1	2	3	4	5
Facebook	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Twitter	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Instagram	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
TikTok	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Youtube	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
LinkedIn	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc
Snapchat	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc

3. What information is most useful to you when looking for careers information/advice?

С) career case studies
С) qualifications required for a particular career
С) website links to opportunities such as work experience
С) salary Information
С) Other
4. W	hich format do you prefer your careers advice/information to be in?
С) Webpage
С) Short video clip
С) social media post/advertisement
С) poster
С) TV/radio advertisement
С) Other
5. W	ould you consider attending summer schools/courses to help inform your career choice?
С) Yes

- O No
- O Maybe

6. Have you heard of MOOCs (massive open online courses)?

- O Yes
- O No

	7.	What	is	your	gendei
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9. What is your country of residence?

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Microsoft Forms

Questions for Interviews

Current Role

- 1. Can you tell me more about your current job/role? What does your average day look like?
- 2. Can you tell me about what you are currently working on?
- 3. What is the significance of the project for the nuclear industry in the long-term/future?
- 4. What has been the greatest challenge in the project?
- 5. Are you working in collaboration with anyone else currently? Internally or externally?

Career History

- 1. What was your first position in the nuclear industry? Did you have a career in a different industry to start with?
- 2. Can you tell me a bit about your career path?
- 3. What attracted you to your current company and/or the nuclear industry in general?
- 4. Looking back, has your career taken the path you had expected?
- 5. What are the most important things you have learnt throughout your career so far?
- 6. What is/are the biggest change(s) you have seen during your time at in the industry?

Time and Experiences

- 1. How did you get to be in your current role?
- 2. What job/project have you found most challenging and why?
- 3. What is your favourite thing about working for your company/university?
- 4. What has been your favourite project to be involved in during your time in the nuclear industry?

5. What has been your greatest achievement?

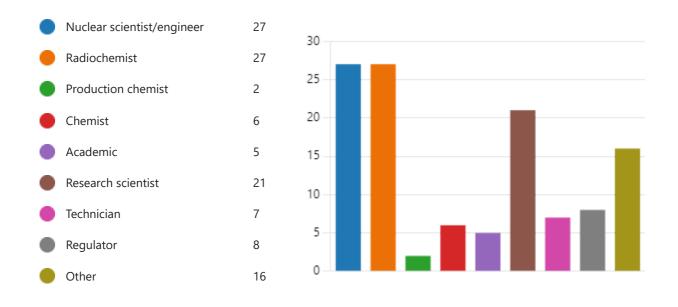
Miscellaneous

- 1. Where do you see yourself in five years time?
- 2. What would be your number one tip for a new-starter?
- 3. Outside of the workplace, what are your hobbies and interests?
- 4. Is there anything else you'd like to add?

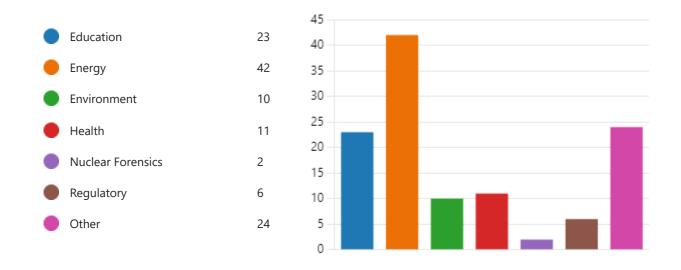
Nuclear and Radiochemistry Careers survey

119	13:21	Active
Responses	Average time to complete	Status

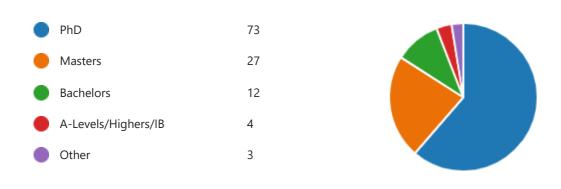
1. How would you best describe your current occupation



2. In which sector do you work?



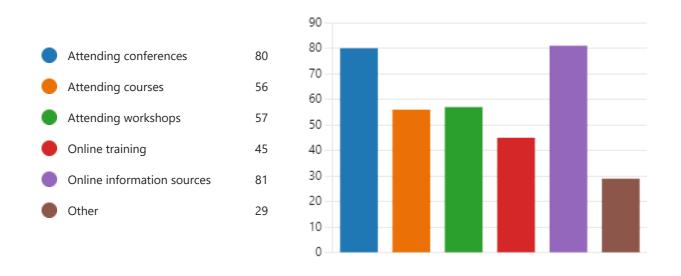
3. What is your highest level of education?



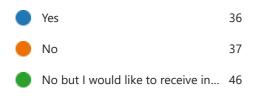
4. At what age/career stage did you first become interested in Nuclear and Radiochemistry?



5. How do you keep your knowledge of Nuclear and Radiochemistry up to date? Tick all that apply

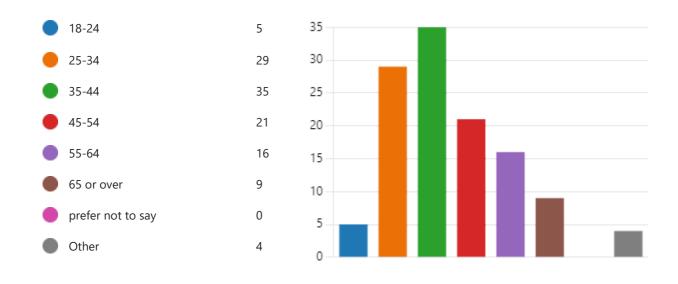


6. Are you aware of the CINCH projects and the educational resources available?



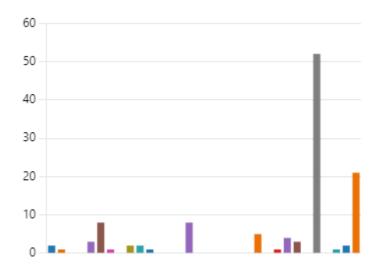


7. What is your age range?



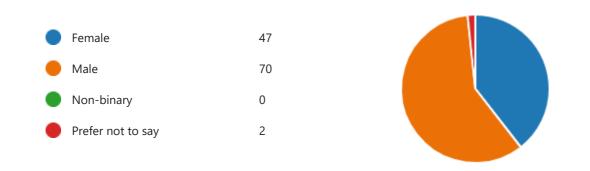
8. In which country do you work?







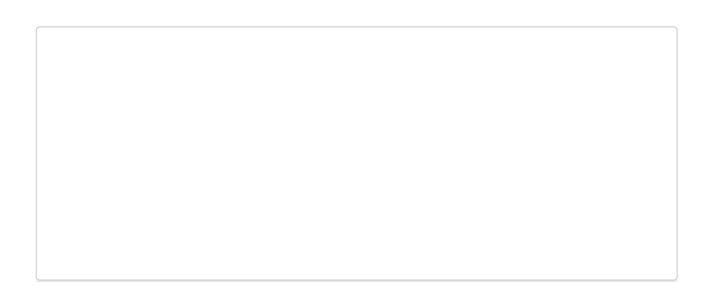
9. What is your gender?



10. Would you be prepared to be contacted to provide further information about your role and career to date?



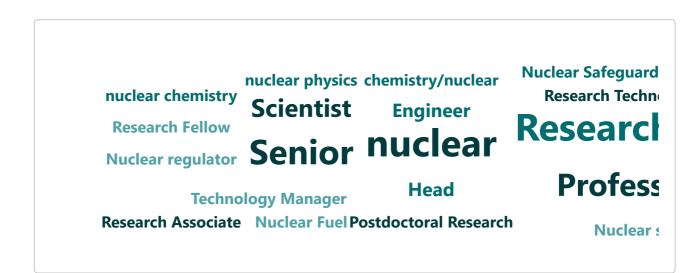
11. Name



12. Organisation



13. Job Title





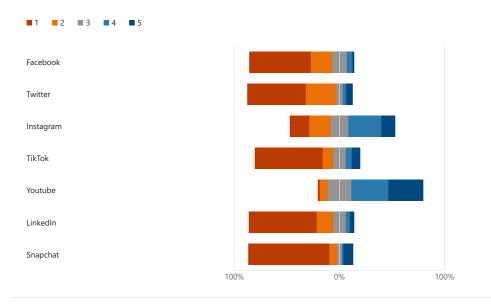
15. Email

16. If you would like to add any further information / have any comments then please enter below

Careers information survey



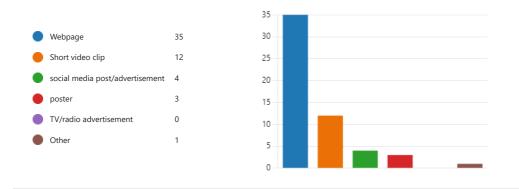
2. Please rate how much each of these platforms influence you, with 1 being the not influential at all and 5 being very influential.



3. What information is most useful to you when looking for careers information/advice?



4. Which format do you prefer your careers advice/information to be in?



5. Would you consider attending summer schools/courses to help inform your career choice?



6. Have you heard of MOOCs (massive open online courses)?



7. What is your gender



8. What is your age?



51 Responses	Latest Responses "Uk" "Czech Republic" "Huddersfield"	
6 respondents (12%) answered Czech Republic for this question. Netherlands France Trinidad and Tobago Belgium Chile UK Canada Contact Contac		



Partnership News & Events Documents Links NRC Network CINCH Series

Career Case Studies

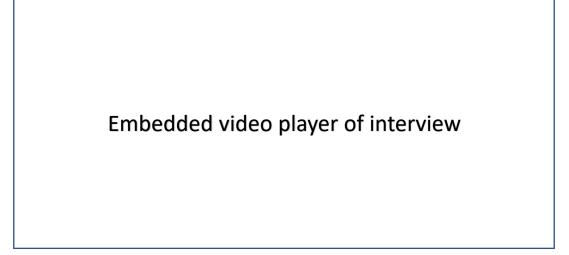
Instrumentation Technician - Lee Warren



Active Materials Laboratory, Diamond Light Source, UK

Lee began his role, at Diamond Light Source (pictured below) in April 2021 and has played an integral role in setting up the Active Materials Laboratory (AML) which is designed to facilitate scientific experiments on radioactive materials.

Hailing from Berkshire, Lee always had an affinity for science and chose to study chemistry at university as he felt it played to his strengths based on his favourite subjects at school. He completed his BSc in Chemistry at the University of Nottingham, UK and began his working life in an organic chemistry laboratory, with no plan to work in radiochemistry initially. However, through a process of job hunting and career development, he discovered his present role, which he has found to be very fulfilling. In particular, he enjoys the variety of different experiments and researchers that he has the opportunity to work with at Diamond on a daily basis.



Links <u>Diamond Light Source</u> <u>National Nuclear User Facility</u> <u>Nuclear Lab Technician's Group</u>



Diamond Light Source from the air