

## Engineering Design with Nuvia 4 year Apprenticeship programme

The role of a designer provides a challenging and exciting opportunity to be part of a team that contributes to some of the world's most demanding projects in a safe and effective manner and is hugely rewarding.

The nuclear industry requires bright, articulate people to convey the ideas from teams of engineers into designs and engineering documents. In time, tasks that you might at first consider difficult will just become part of your daily work. You will be trained in all aspects of design and will follow an engineering discipline route. Typical projects you'll get involved with may consider how to deal with the UK's nuclear waste legacy or systems associated with a nuclear reactor. You will work on highly complex plant and equipment and as part of the team you will be supported all the way.

The role of designer in the nuclear industry is becoming even more important as this sector has many designers approaching retirement age. We need to exploit that experience whilst it is still available.

Nuvia is part of the international Nuvia Group; our parent, Soletanche Freyssinet, is a world leader in major engineering projects of all kinds. Visit [www.nuvia.co.uk](http://www.nuvia.co.uk).

### What are the benefits of doing an apprenticeship?

An apprenticeship offers on the job training, qualifications, excellent pay and good career prospects all in one go! You'll be gaining skills and qualifications which are recognised by employers all over the country, plus you'll be paid while you learn.

An apprenticeship, specifically in Nuclear Engineering Design, provides individuals with an opportunity of a robust career option for life and that's just for starters. Established designers who demonstrate self-motivation, enthusiasm and real technical aptitude may then be selected to complete further education to degree level and thus advance in the industry as qualified Nuclear Engineers.

The demand for designers and engineers within the nuclear industry continues to increase and with 'new reactors' on the horizon the future is exciting. So, if the university route isn't for you, then this is a fantastic way to launch your career in engineering design.

# Nuclear Technology and innovation



## Meet some of our Apprentices...



**Andrew...** *"An apprenticeship has always been preferable to me as it offers valuable training, engineering qualifications and experience in the workplace. During the time I have spent at Training 2000, I have gained knowledge and experience in a wide variety of engineering skills such as CAD, Mechanical Maintenance, Electrical and Metalwork to name but a few. I am now in the second year of my apprenticeship working towards my ONC in Engineering. I am currently working on a range of different projects from tenders to decommissioning work. This is a fantastic way to gain on-the-job experience. I would recommend this fantastic opportunity to anyone wishing to pursue a career in engineering."*

## Laura...

*"I am currently in my third year as a Mechanical Design Apprentice with Nuvia. My experiences so far as an apprentice have been great. In the first year of my apprenticeship I learnt a wide range of engineering skills, including turning, milling, pneumatics, key skills, drawing and finally fitting. In July 2011 I started to work on projects - this is great as I get to put all the skills I have developed over the past three years into practice on a live job. Overall I am really enjoying my apprenticeship so far with Nuvia and feel I have learnt a lot in such a short space of time with the company. I would most definitely recommend an apprentice to others."*



**Ben...** *"I am currently in the second year of my Apprenticeship; I am completing the second part of my ONC and working towards my NVQ Level 3. I have a dedicated Careers Development Adviser who I see monthly and who makes sure I'm settling in well, being looked after and getting all the information and work I need to complete my qualifications. I have been using AutoCAD and other design software to complete tasks for evidence and experience. I have also had the chance to go on a site visit which is a fantastic learning opportunity and allowed me to see some of the drawings come to life. I have learnt and progressed a lot this year and I look forward to continuing my course and extending my knowledge further."*

## Natalie...

*"I have always wanted a career that involved design and technology. I could have continued with my interests to University but the option of being an apprentice in this field was more promising. I'm now in my third year of the programme; I am currently working on my first year of my HNC (Higher National Certificate) after achieving high grades at ONC. Laura and I were selected to be ambassadors for Nuvia and Training 2000. The ambassador role involves promoting Nuvia and apprenticeships to younger people. I am really enjoying the ambassador role as I am able to promote apprenticeships. Throughout the rest of my apprenticeship I aim to continue to improve my engineering knowledge and experience within the company."*



## Where will I do my training?

Training 2000 is the North West's largest and most successful independent work-based learning provider of training courses. The Blackburn campus has state-of-the-art facilities with up-to-date equipment and techniques and will deliver the first year full time manufacturing skills and practice training. (See web page at <http://www.t2k.org.uk>. Travel to and from Training 2000 premises and the Risley Offices in the first year will be provided.

In the 2nd, 3rd & 4th years you'll do your workplace training in our Nuvia design offices in Birchwood Park, Risley, Warrington with 1 day a week continued academic study at Training 2000's engineering centre at Blackburn.

## What benefits will I receive?

You will be paid a good salary from year one; with generous annual leave entitlement and contributory pension scheme. You'll also be working with an experienced team of engineers who will support you throughout your training.

## How does the programme work?

This will be the second year of Nuvia's Apprenticeship programme at our offices in Risley. We are working hard with the national bodies, professional institutions and Training 2000 to make this the best programme around.

Typically, it works like this:

Year (starting Sept)	Method of study	What experience & qualifications can I gain?
Year 1	Full time at T2000: 4 days a week in the workshop 1 day a week covering technical education	NVQ Level 2 Performing Engineering Operations National Certificate in Engineering (1 <sup>st</sup> year) Outward Bound Course
Years 2 & 3	4 days in workplace at Nuvia offices, Birchwood Park, Risley Day release at T2000	Start NVQ Level 3 Engineering Technical Support – design office-based training Familiarisation with Design Office protocols Develop IED & IMechE log book Complete National Certificate in Engineering Start HNC in Engineering (in year 3) AutoCAD training increasing to a recognised level of competence Quality Management Systems and development of good nuclear design practice Experience other Nuvia UK offices to develop learning opportunities
Year 4	4 days in workplace at Nuvia offices, Birchwood Park, Risley Day release at T2000	Complete NVQ Level 3 Engineering Technical Support Completion of HNC in Engineering Opportunities to learn 3-D CAD Modelling, FEA and CFD modelling software packages

## What do I need to do and how do I apply?

You will need to be striving for or have a minimum of 5 GCSEs at Grade B including English, Mathematics and a Science subject and you need to be computer literate.

To apply, simply e-mail your CV and covering letter to [apprenticeships@nuvia.co.uk](mailto:apprenticeships@nuvia.co.uk). In your covering letter include a personal statement to tell us why you are the right candidate for a Nuvia Apprenticeship (max 1000 words).

**The closing date for applications is Tuesday 10 April 2012.**

If you are successful in getting through the first stage selection process, you'll be invited to undergo an assessment day at T2000. Following the assessment day, short-listed candidates will be invited along to Nuvia for a friendly interview. Along the way you will have the chance to see where you'll be working and studying, and ask any questions about the Apprenticeship programme.

The scheme is being run in association with Training 2000 who will provide the practical engineering training and the higher education technical training required to complete the Apprenticeship and is recognised by the national institutions below.



If you have any further questions about the apprenticeship scheme please email [apprenticeships@nuvia.co.uk](mailto:apprenticeships@nuvia.co.uk)

We look forward to hearing from you soon!