Training physicists and engineers for Elekta’s future

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Elekta - some basic facts

- Global medical technology Group within oncology and neurosurgery
- More than ~3,350 employees worldwide
- Net sales* ~£850M
- Operating result* ~£175 M
- Headquarters in Stockholm, Sweden
- Offices in ~ 40 countries
- UK operation based in Crawley, south of Gatwick Airport
- Currently No 1 in Europe, aiming to be No1 in the World for radiation therapy

* Fiscal year 2011/12
Increased cancer incidence
Improved diagnosis, demographics, higher life expectancy

**Number of new cancer cases**

*Millions*

- **Total**
- **Men**
- **Women**

WHO forecast of new cancer excluding melanoma

IoP Particle Accelerators and Beam Group meeting - John Adams Institute, Oxford – 19th March 2013
Elekta’s acquisitions

1972
Elekta was founded

1997
• Philips Radiation Therapy Division

2003
• Neuromag

2005
• IMPAC Medical Systems
  • Medical Intelligence

2006
• (80%) of Beijing Medical Equipment Institute (BMEI)

2008
• CMS

2010
• Resonant Medical

2011
• Nucletron

2012
• Radon

1972
Elekta was founded
Innovation through collaboration

• Elekta Research & Development performed with users at leading universities and hospitals

• R&D investments FY 11/12
  – ~£73M
  – 9% of net sales

• Recognition for this work
Elekta - stronger than ever

Every year…
• Close to 1,000,000 patients receive treatment with radiation therapy and radiosurgery equipment from Elekta
• Whereof 60,000 patients undergo Gamma Knife® surgery

Every day…
• 100,000 patients receive diagnosis, treatment or follow-up facilitated by software systems from Elekta companies
Elekta Oncology
- Complete range of linear accelerators

Elekta Axesse™
Elekta Synergy®
Versa HD™
Elekta Infinity™
Elekta Precise™
Elekta Compact™
Investing in people for Elekta’s future -1

The Elekta Graduate Training Programme – What we are looking for

• Our greatest asset is our people
• We need bright SE&T graduates for the future of our business
• Minimum academic level: 2:1 or 2:2 with experience or post-graduate qualifications
• Other qualities to fit into our organisation, e.g.: self-motivation, flexibility, good communication skills, aptitude to innovation, ability to work as part of a team, etc.
• We are looking for people’s potential to develop within Elekta
Investing in people for Elekta’s future – 2
The Elekta Graduate Training Programme – What we offer

• 2-year placement (with salary increase every 6 months) in a foundation department in R&D (Physics, Software Systems, Mechanical Systems, Electronic Systems) or in QA&RA

• Experience in all key business processes (e.g. manufacturing, service and installation, product management)

• Opportunity for a placement overseas within Elekta

• Dedicated mentor and support network, tailored PDP

• Sponsorship to achieve Chartered Status within 4/5 years

• Attendance of major global exhibitions in the industry (e.g. ESTRO, AAPM, ASTRO)
Investing in people for Elekta’s future – 3
How external organisations may help training accelerator scientists and engineers for our industry

• External courses for CPD in R&D: e.g. advances in accelerator technology (accelerator experts), foundations of accelerator science (physicists and engineers with different background)

• Development of system engineers (high demand)

• Develop domain knowledge for accelerator scientists (specific products and applications in the oncology industry, user and patient needs) – e.g. via links with radiotherapy hospitals or industrial placements

• Couple technical training of students with development of leadership and project management skills, commercial awareness
Investing in people for Elekta’s future – 4

Other potential opportunities for training

• Technical training of local staff in emerging markets, e.g.
  - to support sales and service
  - to help managing local research collaborations
  - to support regulatory submissions
  - to help with auditing of suppliers

• E-learning, exchanges with centres of excellence in Europe or other countries are possible mechanisms to achieve this
Our physics graduates say......

“I learn new things each day”, Stephen Towe

“I enjoy the fact that projects are so varied”, Marianna Kydonieos
Human Care Makes the Future Possible