

# Patent Attorney (Technical Assistant-Patents): John

## Job described by Deborah aged 14

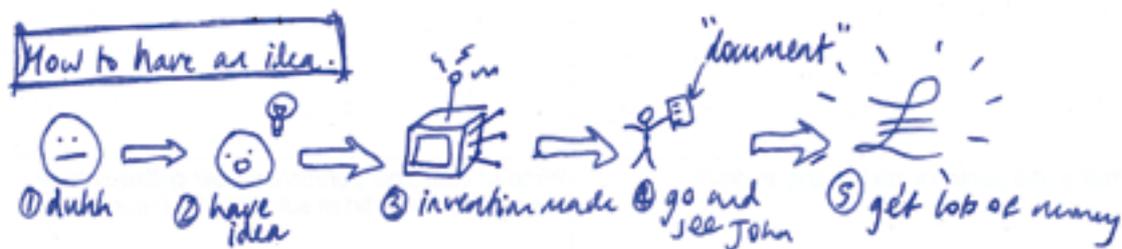
He is a Patent Attorney. His job is to protect inventors against others stealing their ideas or inventions, and he can also licence a product/idea to a richer company if the inventor cannot afford to make it. A patent gives sole rights to the product. On a day to day basis John has to write lots of letters to clients and make sure that they have paid. He meets new clients and has to let down potential clients with rubbish ideas.

Some of the skills needed in this job are; good organisation and IT skills, good scientific knowledge and good communication skills. John has a Degree in Biotechnology and a PhD in Microbiology. He has also done a year's course in Patents and Trademarks.

## Job described by Kirsty aged 15

This person would be responsible for communicating efficiently and effectively with clients and helping them process their ideas and even helping modify them. This person is responsible for helping set up a trademark for the client's product/service so that the idea is not copied or adapted by another company. The person should have a great background knowledge of science as they will be dealing principally with medical products. A Law Degree would also be useful for courtroom purposes and a sound knowledge of the law concerning their client is essential.

The person will have a client database of around 80-90 patents and will require good communication skills and IT skills as they will have to write a large amount of letters summarising their ideas. The person would have to be well organised and be very accurate and precise in their work as mistakes can cost a company thousands of pounds.



John protects peoples inventions by writing legally binding documents which describe the ideas which the client has had and register them so that no one else can steal their ideas & their money! The job requires patience, organisation skills and knowledge of the areas which the invention is aimed at.

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(patent pending)

## Trainee Patent Attorney: **Richard**

### Job described by Steven and Ross in 5th Year at Secondary School

**Advises and protects peoples' intellectual property, e.g. patents trademarks and copyrights, mainly in Drugs, Bioscience and Pharmaceuticals.**

#### **Day to day:**

Learning and training.  
Work 9-5pm.  
Studying.  
Administration.  
Meeting clients.  
Travelling.

#### **Career pathway:**

High school – 4 A Levels.  
University – BSc.  
Lab Research.  
PhD.  
Lecturer.  
Works for Patent and Trademark Attorneys.

### Job described by Hazel in 5th Year at Secondary School

**Protects peoples' ideas and inventions and gives them advice on protecting their ideas (mainly scientific ideas). He helps people to protect and enforce their rights.**

#### **Day to day:**

Works 9-5pm.  
Checks mail and answers queries through mail.  
Meets clients and discusses inventions, trademarks, copyright and discusses how to protect invention/idea.  
Afternoon in office doing administration.  
Answering and writing letters.  
Marketing  
Study and training.

#### **Key skills needed are:**

Be analytical.  
Interested in Science.  
Have an eye for detail.  
Good English and grammar.  
Have a good personality.



## PhD Student (Molecular Biology): **Robert**

**\*\*WINNER\*\*** job described by Annie aged 16

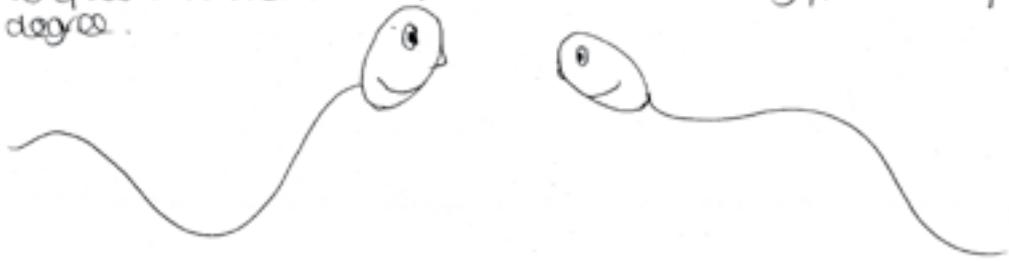
PhD in molecular biology. It mainly concentrates on the relationship between hormones and sperm production. The results could ultimately have many applications, for example development of a male contraceptive pill, and more insight into reasons behind infertility.

On a day-to-day basis, students work on maintaining cell conditions and growth medium, and documenting background information. Experimentation is not daily but can take long periods of time for each. Often the experiments are repetitive and applicants would require patience and detailed documentation.

Non-academic requirements include: - confidence, problem-solving, time management and dedication. Sometimes unsociable hours are unavoidable.

In academic terms, subjects should include Biology, Chemistry, Physics and Maths. If Maths is not studied to a higher level then a secure pass at standard level is vital.

Overall, an interest in science is essential, along with dedication to research and its benefits to society. Very worthwhile career option to follow a biology/chemistry related degree.



**\*\*WINNER\*\*** job described by Ross aged 13

Robert is doing a PhD in Molecular Biology. He investigates which proteins are involved in sperm production and hormone regulation.

### **Key skills needed:**

Time management.

Technical skills.

Dedication.

Balance the practical work with reports.

His weekly routine would involve planning and setting up, studying proteins in cells 2-3 times a week, 3 mornings a week checking the cell solution and spending part of the day reporting what he has done throughout the day.

To look for this job as a career you need to take Biology, Chemistry and Maths at Standard Grade and Higher, do animal physiology at university, practice at an academic institution and get a PhD in Molecular Biology.

### **Career Pathway:**

Biology, Chemistry, Physics and Maths at GCSE.

Biology, Chemistry and Maths at A Level.

Animal Physiology, 3 years at university.

Sandwich year in academic institution.

PhD in Molecular Biology.

## PhD Student/Research Assistant (Neuroscience): **Roger**

### Job described by Jemma aged 16

Roger is a student who studies the brain. He is currently taking a PhD and carries out his research on animals to see how the brain works and how brain cells talk to each other. He specialises in memory in the brain. To get to do this he studied a Degree at college then did a Masters Degree in Neuroscience, which led him to do a PhD. He hopes to do a Postdoctoral job after he completes the PhD. Some of the research that he is undergoing is about memory to see how to hopefully improve human conditions.

### Job described by Kara aged 14

**In Roger's job as a Brain Scientist he must have the following skills:**

- Good communication.
- Analytical skills.
- Mathematical skills.
- Creative skills.
- Interpreting results.

**Roger's job encompasses the following steps:**

- Research on your chosen topic and see what everyone else is doing in your chosen field.
- Come up with an original experiment to try and prove your hypothesis.
- Carry out the experiment.
- Analyse your results and come up with a conclusion based on your results.

### Job described by Caitlin aged 16

Roger is a PhD Student studying Neuroscience. His work is the study of the mind and he works with animals doing experiments. He studies how brain cells interact with each other. He works to help improve memory. Roger's manual skills are very precise. He has a steady hand, he is tidy and careful, and he works with animals so he is a good animal handler.



**“Best part - finding out new information which nobody else has discovered.”**

## Physiotherapy Manager (Sports Medicine): **Treena**

### Job described by Lynsey aged 16

There are many skills required in order to become a physiotherapist, including observation skills, people skills and a scientific background. Physiotherapists are often the first point of contact for a member of the public who has an injury. This may be the result of a sporting accident (Sports Physiotherapists specialise in these people) or after people have had medical treatment of some kind.

Listening is a very important skill to have in this job as the patient can often help by telling the physiotherapist how the accident happened, therefore making treatment easier. Sports Physiotherapists also work with sports enthusiasts who wish to build on their strength and performance - not just people who have been injured. This works by devising them a specialised programme of exercise which will result in the improvement of their health and fitness.

### Job described by Emma aged 16

There are a few main aspects to working as a Sports Physiotherapist. They must be able to provide 5 skills in order to carry out their job successfully. These are: the ability to listen to patients; communicate well with them; motivate them to carry out any exercises they have been given; they must be able to observe injuries well in order to diagnose them; and they must have scientific skills to allow them to reach a diagnosis quickly and then go ahead and provide suggestions and steps to cure their patient's injuries successfully.

The basic day to day plan for a Sports Physiotherapist is first to observe a patient's injury, communicate and listen to them, and then provide exercises to help their patient's injury.

**"Physiotherapists sometimes go on tours with sports teams to help with any injury they may get while on tour."**

### Job described by Stephanie aged 16

A Physiotherapist helps people with injuries. Their main aim is to help people get back to their usual day to day life. A lot of skills are needed for this job. You must be able to motivate people so they can also help themselves to get better. They must have a scientific base, like Physics and Biology. To get this job 5 Highers at a high grade are needed, 2 of these must be sciences. Another skill needed is communication. They must be good at talking to people and listening to what they have to say. Another skill is being observant, watching how the patient walks and copes with their injury. A normal day for this job would be to treat patients and also lecture about physiotherapy. It helps to have varied experience working with G.P.s and in hospitals.

**"Knowing what muscles and body parts that are used is very important in coming to the correct decision and helping an athlete to get back to sports as fast as possible"**