



# CLINICAL RESEARCH

MARK GRIFFITHS

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# **CLINICAL RESEARCH...IN A WORD?**



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# CLINICAL RESEARCH...IN A WORD?

Science

Medicines

Patients

Disease

Trials

Laboratories

Money

Animals





## WHO AM I?

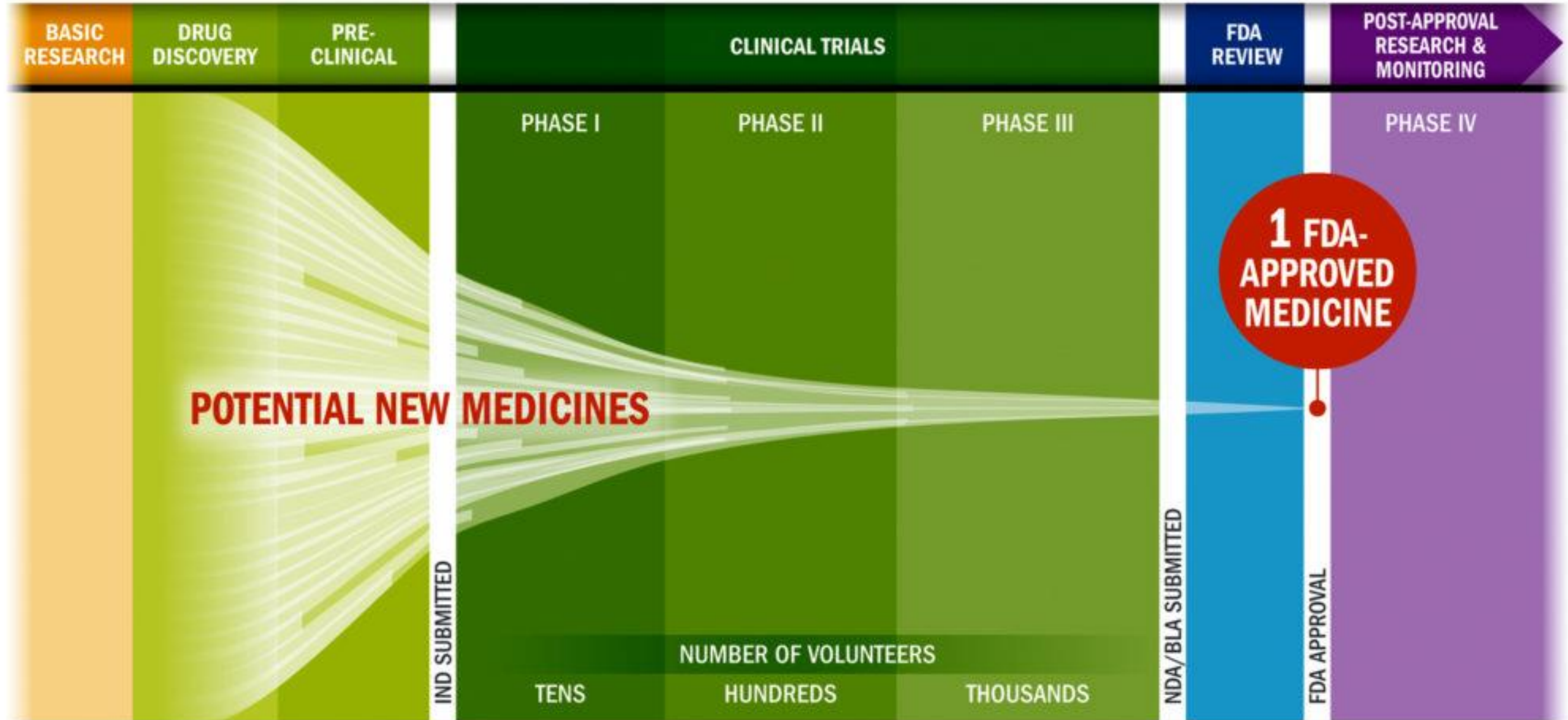
- Studied at Pershore High School
- Degree in Marine Biology and Biochemistry
- Masters Degree in Genetics
- Worked for many pharmaceutical companies: Pfizer, Roche, Novartis
- Director of Global Study Management
- Work from home – yay!

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# **CLINICAL RESEARCH...MEDICINE DEVELOPMENT?**



# MEDICINE DEVELOPMENT

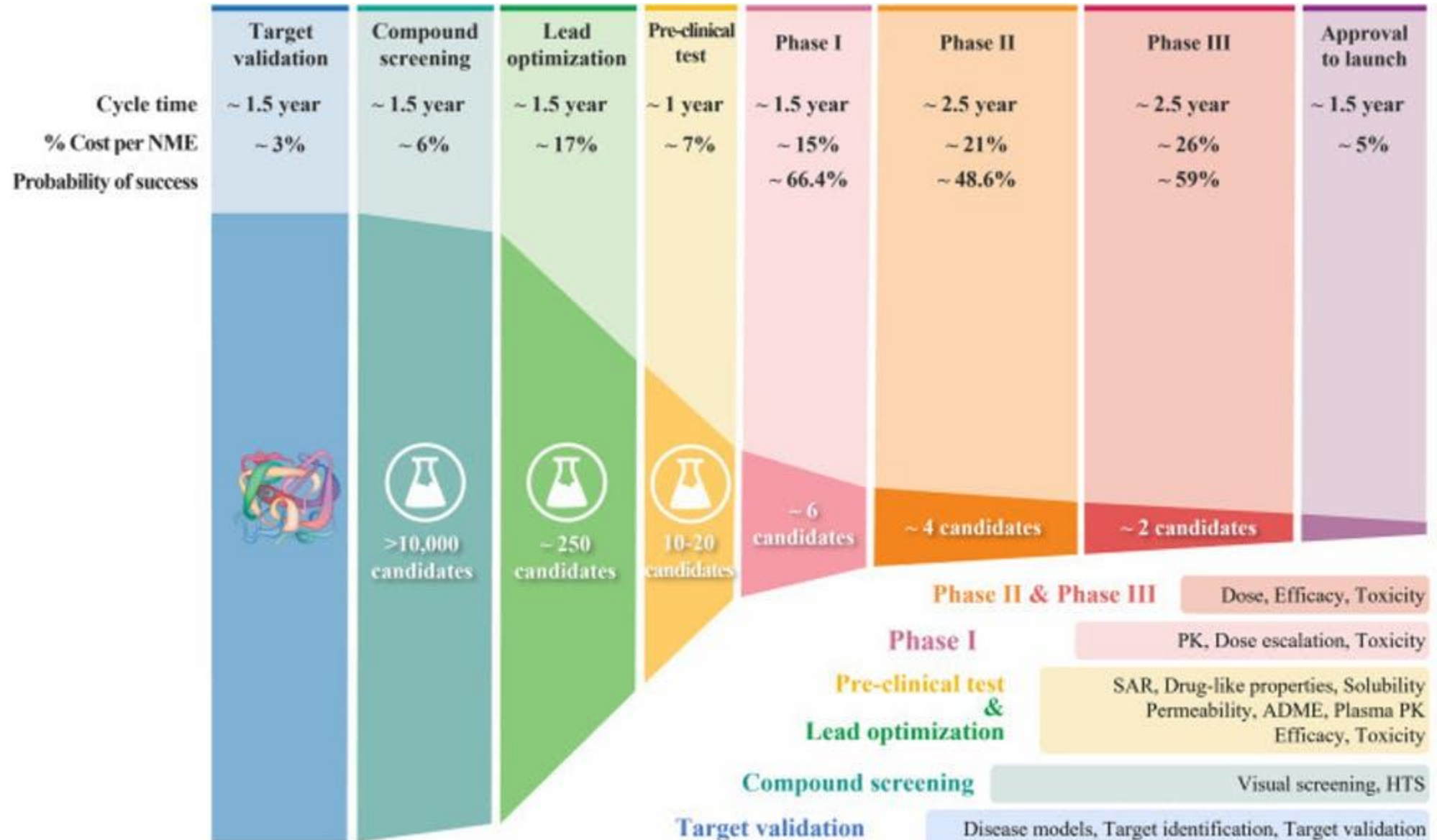


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# MEDICINE DEVELOPMENT

- On average, it takes **at least ten years** for a new medicine to complete the journey from initial discovery to the marketplace, with clinical trials alone taking six to seven years on average. The average cost to research and develop each successful drug is estimated to be **\$1-2 billion**.
- Despite these significant investments in time and money, overall failure rate in drug development of over 96%, including **90%** failure rate during clinical trials.
- Failure rate at **Phase III** is around 39%, or **2 out of 5 drugs fail**.

# MEDICINE DEVELOPMENT



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# CLINICAL RESEARCH...WHERE DOES IT HAPPEN?



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# CLINICAL RESEARCH...WHERE DOES IT HAPPEN?

Pharmaceutical Companies

Universities

Hospitals

GPs

Contract Research Organisations

Laboratories

Site Management Organisations



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# CLINICAL RESEARCH...CAREERS?



Biochemist

Microbiologist

Geneticist

Molecular Biologist

Pharmacologist

Organic Chemist

Medicinal Chemist

Toxicologist

Immunologist

Biotechnologist

# CLINICAL RESEARCH...CAREERS?



Patent Lawyer

Regulatory Affairs

Medical Writing

Project Manager

Clinical Research Associate

Marketing

Medical Sales

Pharmacovigilance

Production

Engineering

Quality Assurance

Validation

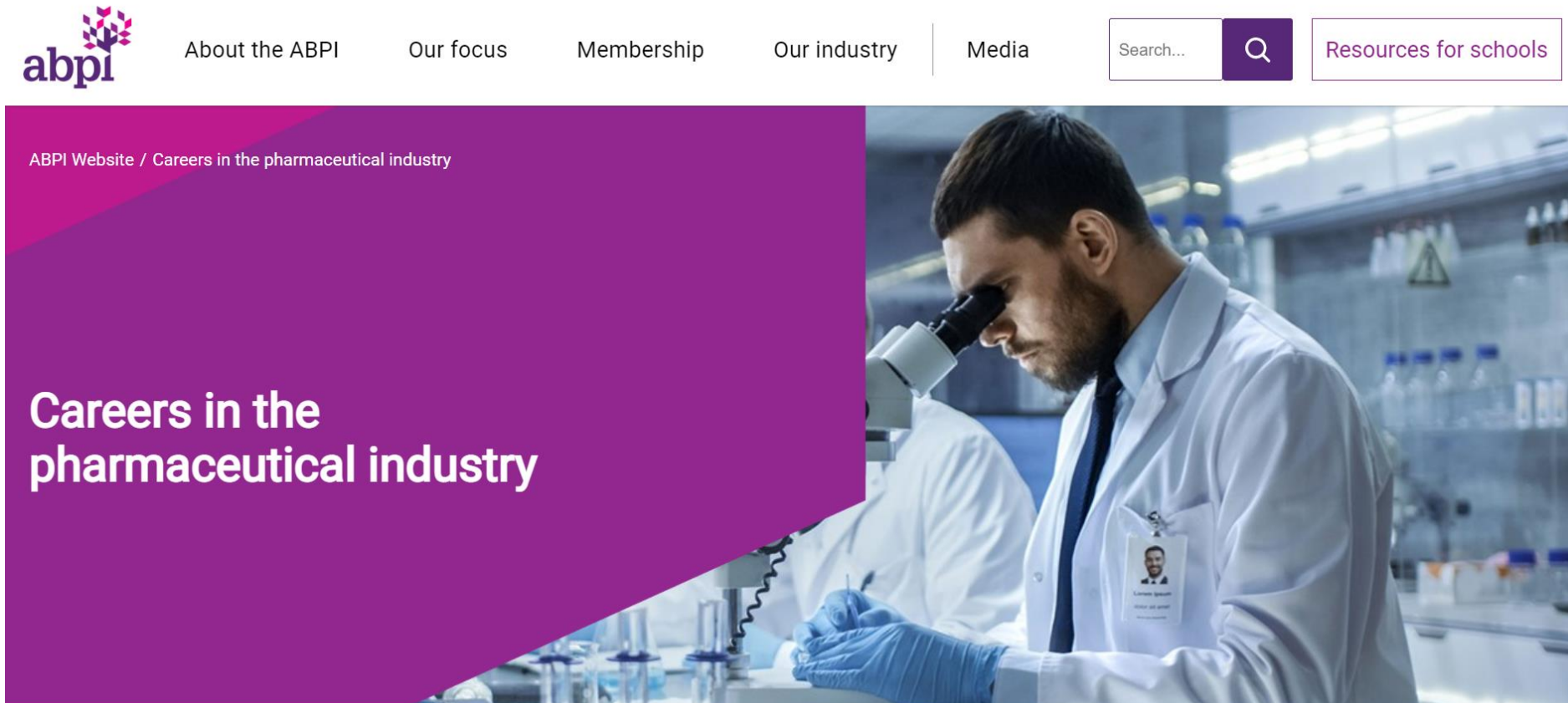
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# STUDENT OPTIONS

- 2 - 12 Week Summer Placements
- Industry Placement Year Degree Courses
- Graduate Internships



# CLINICAL RESEARCH CAREERS



- [Careers in the pharmaceutical industry \(abpi.org.uk\)](https://www.abpi.org.uk/careers-in-the-pharmaceutical-industry)

# CLINICAL RESEARCH CAREERS

What areas of science and pharmaceuticals can I work in? Areas of employment include:

- academic research
- chemicals
- food science
- forensic science
- geoscience
- healthcare science
- life sciences
- marine biology
- materials science
- meteorology
- nuclear
- oil and gas
- polymers
- toxicology

The screenshot shows the Prospects website interface. At the top, there's a dark blue header with 'PROSPECTS' on the left and 'Post a job >' on the right. Below this is a navigation bar with buttons for 'Jobs and work experience', 'Postgraduate study', 'Careers advice', and 'Applying for university'. On the right of this bar are 'Log in', 'Register', and a search icon. A breadcrumb trail shows '< Science and pharmaceuticals'. The main content area has a dark blue background with the title 'Overview of the science and pharmaceuticals sector' in large white text. Below the title, it says 'Jemma Smith, Editor' and 'March, 2022'. A pink button with a right arrow says 'View all science and pharmaceuticals jobs'. On the right side, there's a 'On this page' sidebar with a list of six items, each with a pink checkmark icon: 'What areas of science and pharmaceuticals can I work in?', 'Who are the main graduate employers?', 'What's it like working in the sector?', 'Do I need a related degree?', 'What skills do science and pharmaceutical employers want?', and 'Where can I get work experience?'. At the bottom of the article, the text 'If you want push scientific boundaries or think you're capable of' is partially visible.

- [Overview of the science and pharmaceuticals sector | Prospects.ac.uk](https://www.prospects.ac.uk/overview-of-the-science-and-pharmaceuticals-sector)

# INSPIRED?

## Moonshot

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Inside Pfizer's Nine-Month  
Race to Make the  
Impossible  
Possible



**DR. ALBERT BOURLA**

Chairman and CEO, Pfizer

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# QUESTIONS?

