



Chemistry in Germany - educational and research opportunities

German Chemical Society
Gesellschaft Deutscher Chemiker
GDCh

German Education System



**Elementary, secondary
& postsecondary education**

Elementary + High School
9-10 years



vocational education
- industry + school
- school

Elementary + High School
12 years



university
or
vocational education

Postsecondary Education in Chemistry

Hochschule

University Universität

research-orientated

Bachelor (6 semester)

Master (4 semester)

PhD

PostDoc

University of Applied Science Fachhochschule

application-orientated

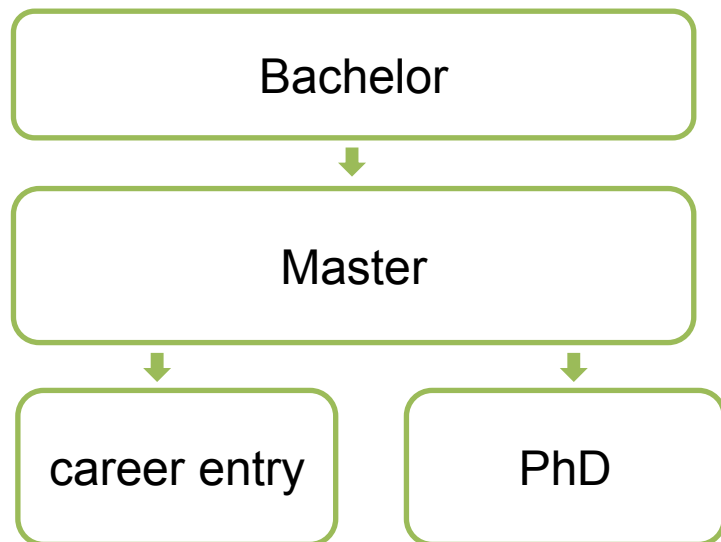
Bachelor (6-7 semester)

Master (4-3 semester)

PhD: cooperation with universities!

PostDoc: ?

Postsecondary Education in Chemistry



6 %
67 %

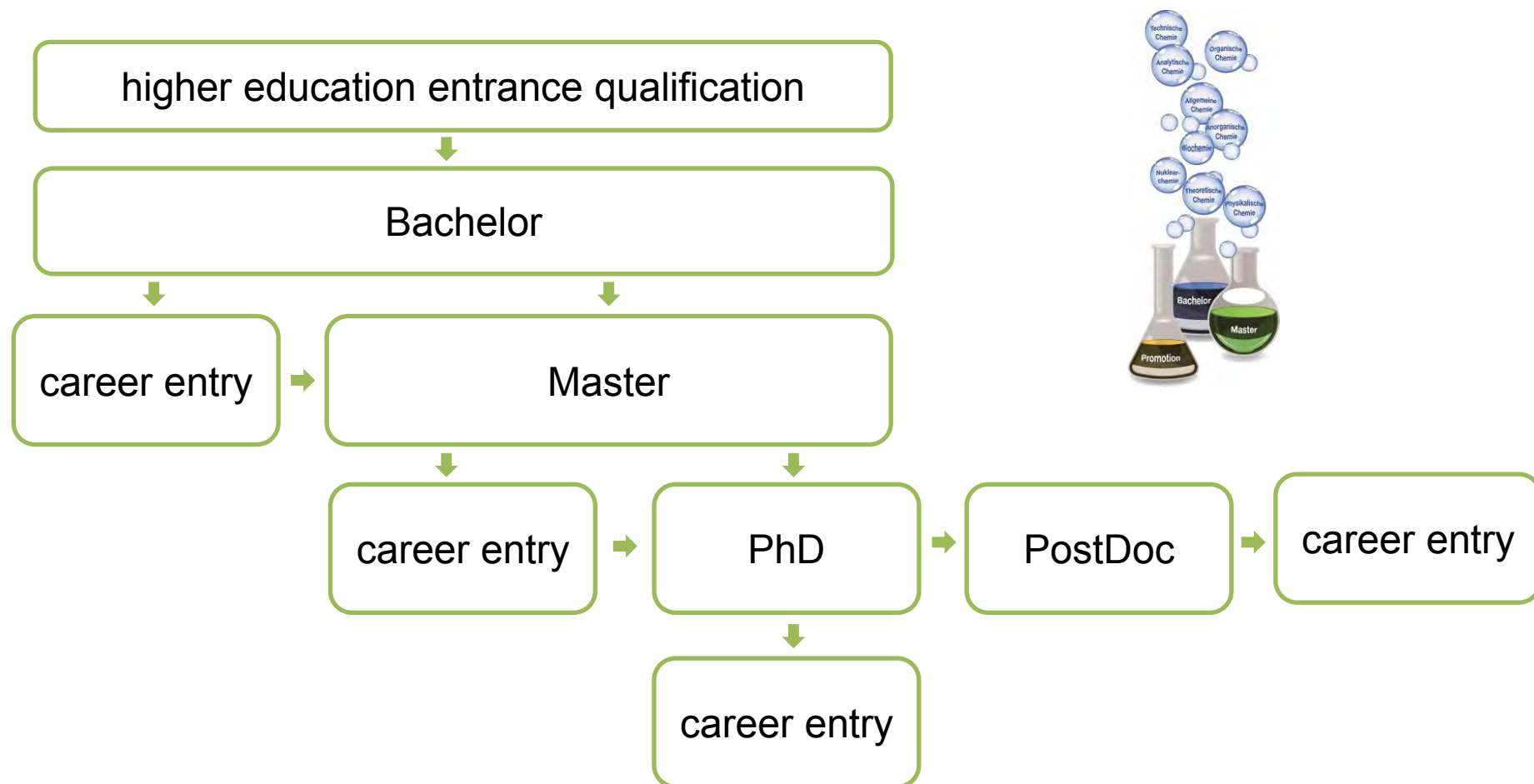
90 %
23 %

University
University of Applied Science

56 Universities
23 Universities of Applied Science

6095 1st year students
1945 1st year students

Postsecondary Education in Chemistry



Postsecondary Education in Chemistry

Analytical Chemistry

Biochemistry

Business Chemistry

Construction Chemistry

Degree Program “Teaching Chemistry”

Environmental Chemistry

Food Chemistry

Inorganic Chemistry

Medical Chemistry

Nuclear Chemistry

Organic Chemistry

Physical Chemistry

Polymer Chemistry

Technical Chemistry

Theoretical Chemistry

Water Chemistry

PhD in Germany

Where?

- ✓ universities
- ✓ research institutes
- ✓ graduate schools

Requirements?

- ✓ Master
- ✓ Bachelor: examination

How long?

3,5 years average

Language?

- ✓ English
- ✓ German courses

Financial support?

- ✓ salary
- ✓ scholarships funding-guide.de



Post Doc in Germany

Where?

- ✓ universities
- ✓ research institutes
- ✓ industry

Requirements?

- ✓ PhD

How long?

1-3 years

Language?

- ✓ English
- ✓ German courses

Financial support?

- ✓ salary
- ✓ scholarships www.funding-guide.de

Have a Look at ...

**Research in
Germany**



Land of Ideas

research-in-germany.de

DAAD
German Academic Exchange Service
daad.de

DFG
German Research Foundation
dfg.de

Universities

hochschulkompass.de
or universities' webpages

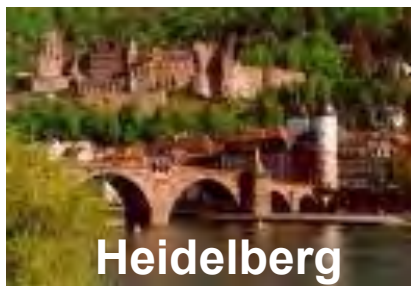
Research Institutes

Max Planck Association mpg.de
Helmholtz Association helmholtz.de
Leibniz Association wgl.de
Fraunhofer Association fraunhofer.de

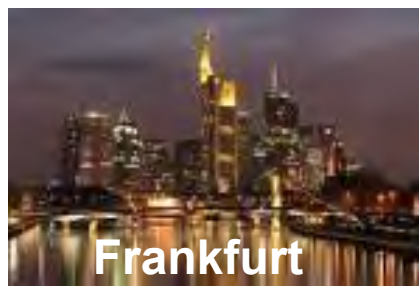
Why should you come to Germany?

Cutting-edge research facilities in Germany

- ✓ variety of Bachelor, Master, PhD & PostDoc positions
- ✓ challenging PostDoc research activities
- ✓ numerous funding possibilities
- ✓ access to German chemical industry
- ✓ cultural diversity & modern lifestyle in the heart of Europe



Heidelberg



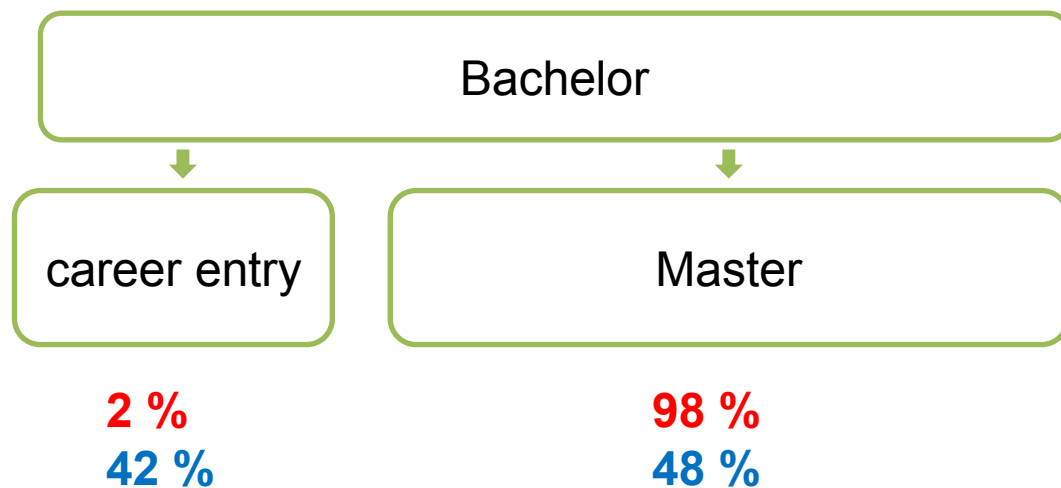
Frankfurt



Dresden

GDCh
Scientific Forum
September 2015

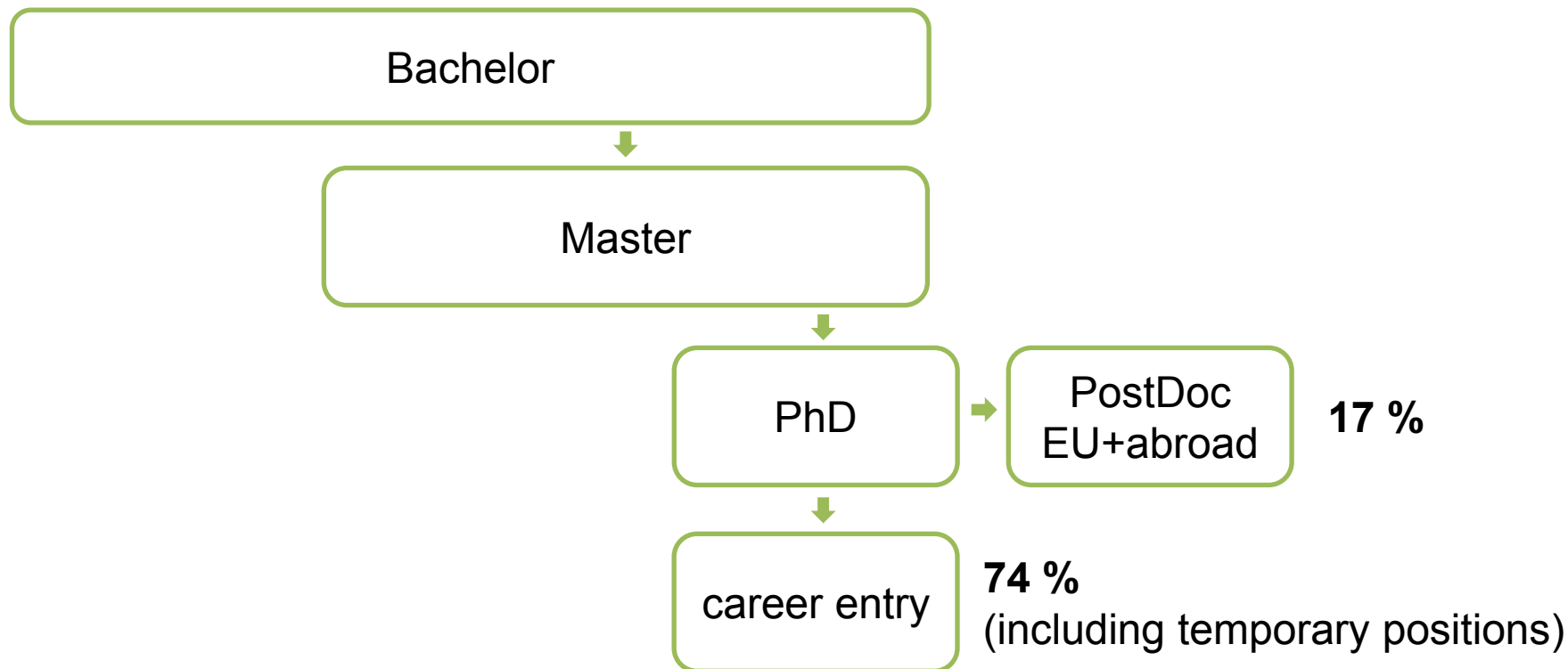
Postsecondary Education in Chemistry



University
University of Applied Science

GDCh, Chemiestudiengänge in Deutschland, Statistische Daten 2012, www.gdch.de/statistik

Postsecondary Education in Chemistry



GDCh, Chemiestudiengänge in Deutschland, Statistische Daten 2012, www.gdch.de/statistik

PhD in Germany

Individual PhD

- individual professor-student relationship
- no explicit curriculum
- application directly to the professor
- every university in Germany

Structured PhD Program

- supervision by a group of professors
- systematic study program
- structured, formal admission program
- Max Planck Research Schools
Research Training Schools
Graduate Schools