

# Women in Science in New Zealand

By the numbers



# AWIS

# The statistics project

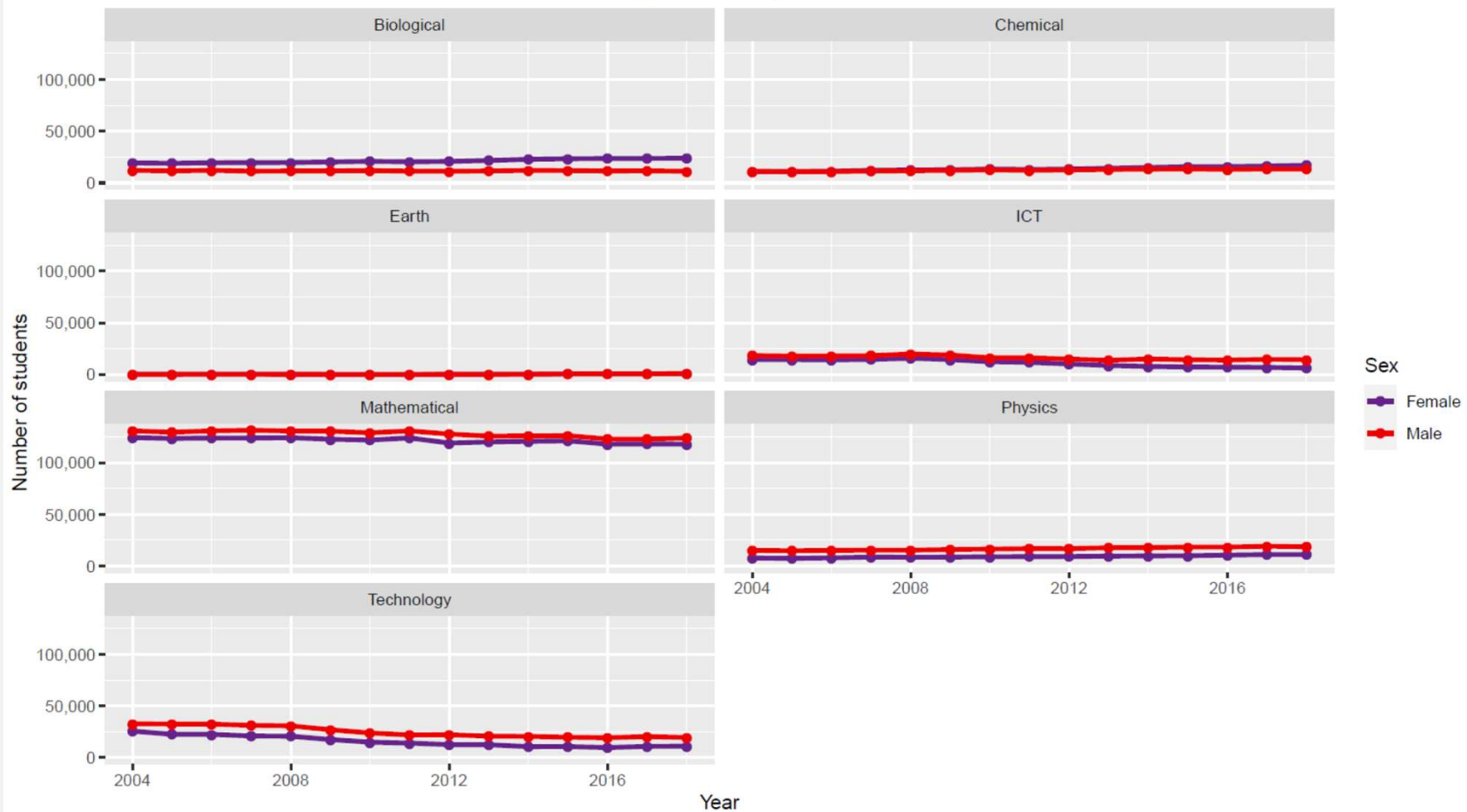
- Not a definitive analysis but a way of tracking where there may be gaps and changes over time for women in science in New Zealand

- 2010 – first statistics booklet published
- 2018-19 – new data collected
- 2020-21 – data analysis

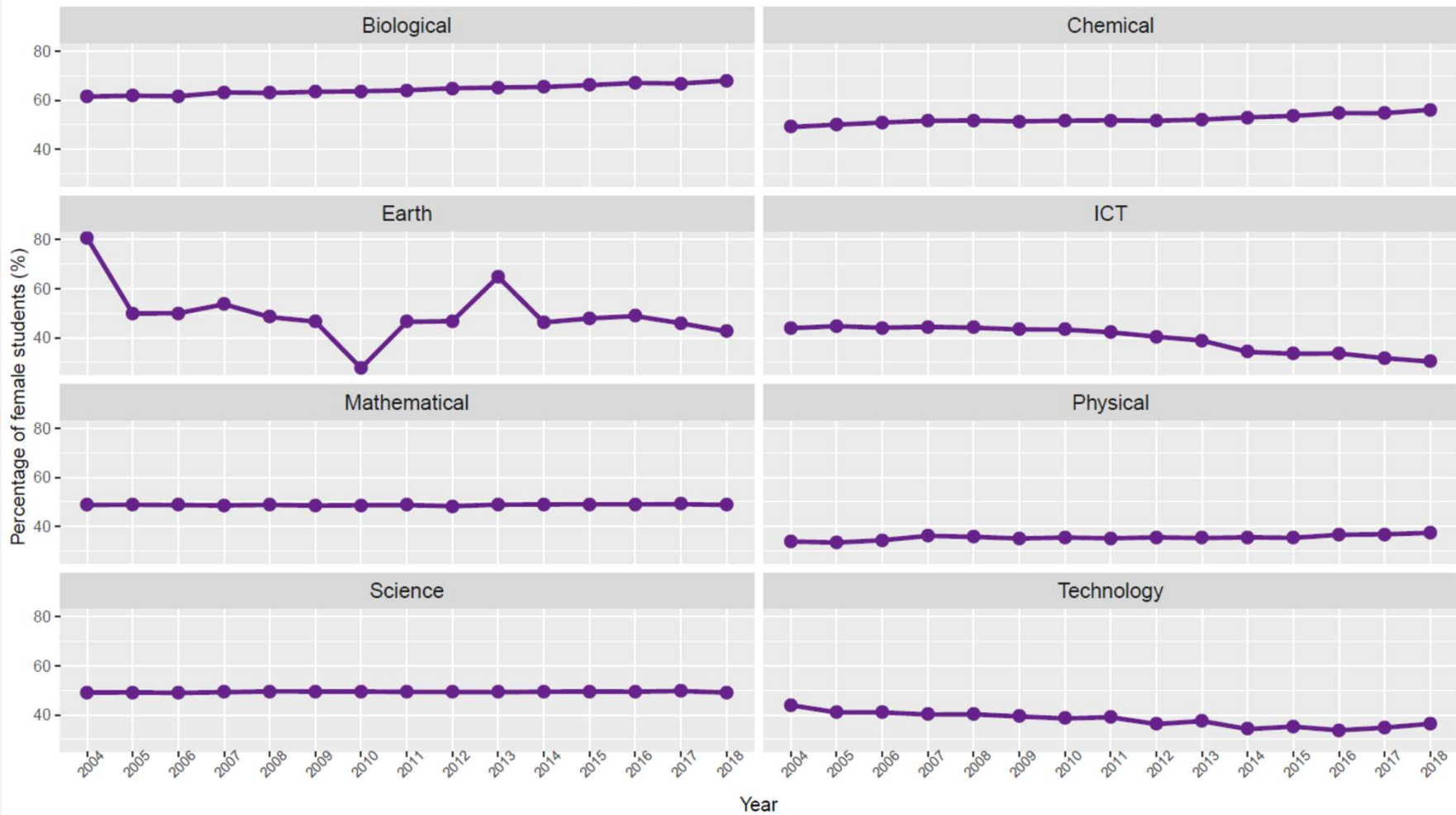
# Enrolment at secondary school

## Enrolment in science by subject and gender

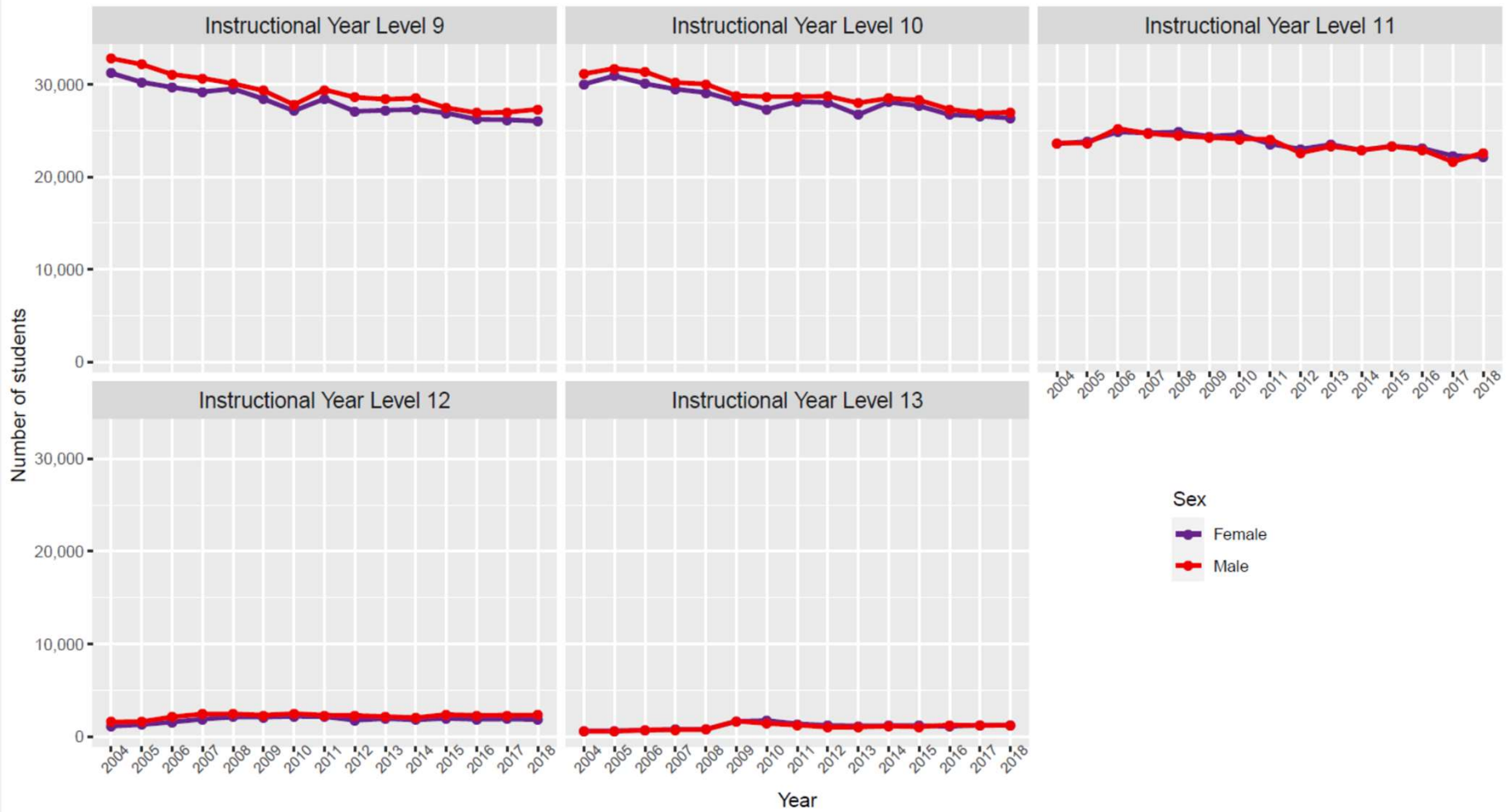
Secondary school from year 9 to 13



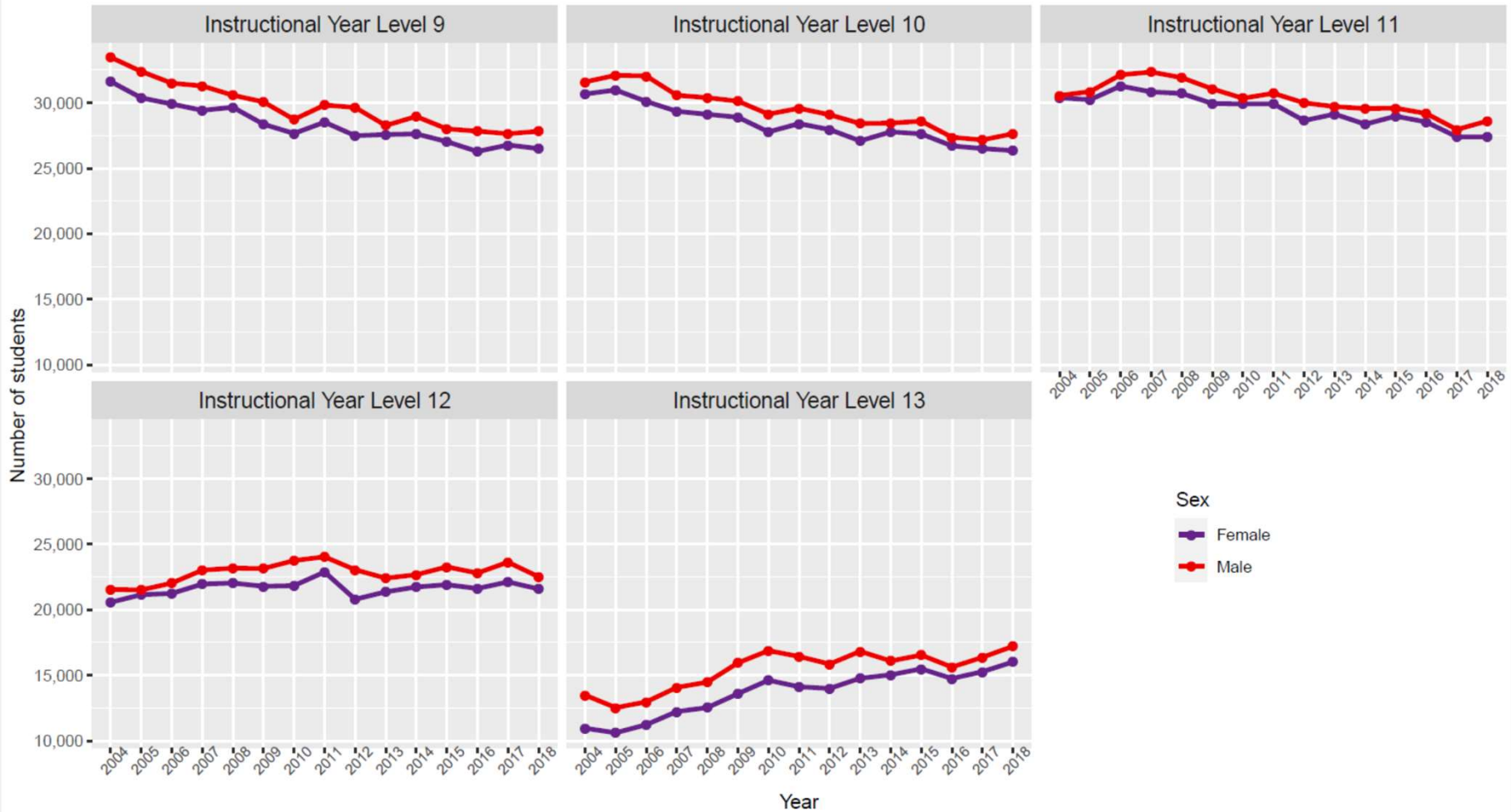
# Enrolment in science by females Secondary school from year 9 to 13



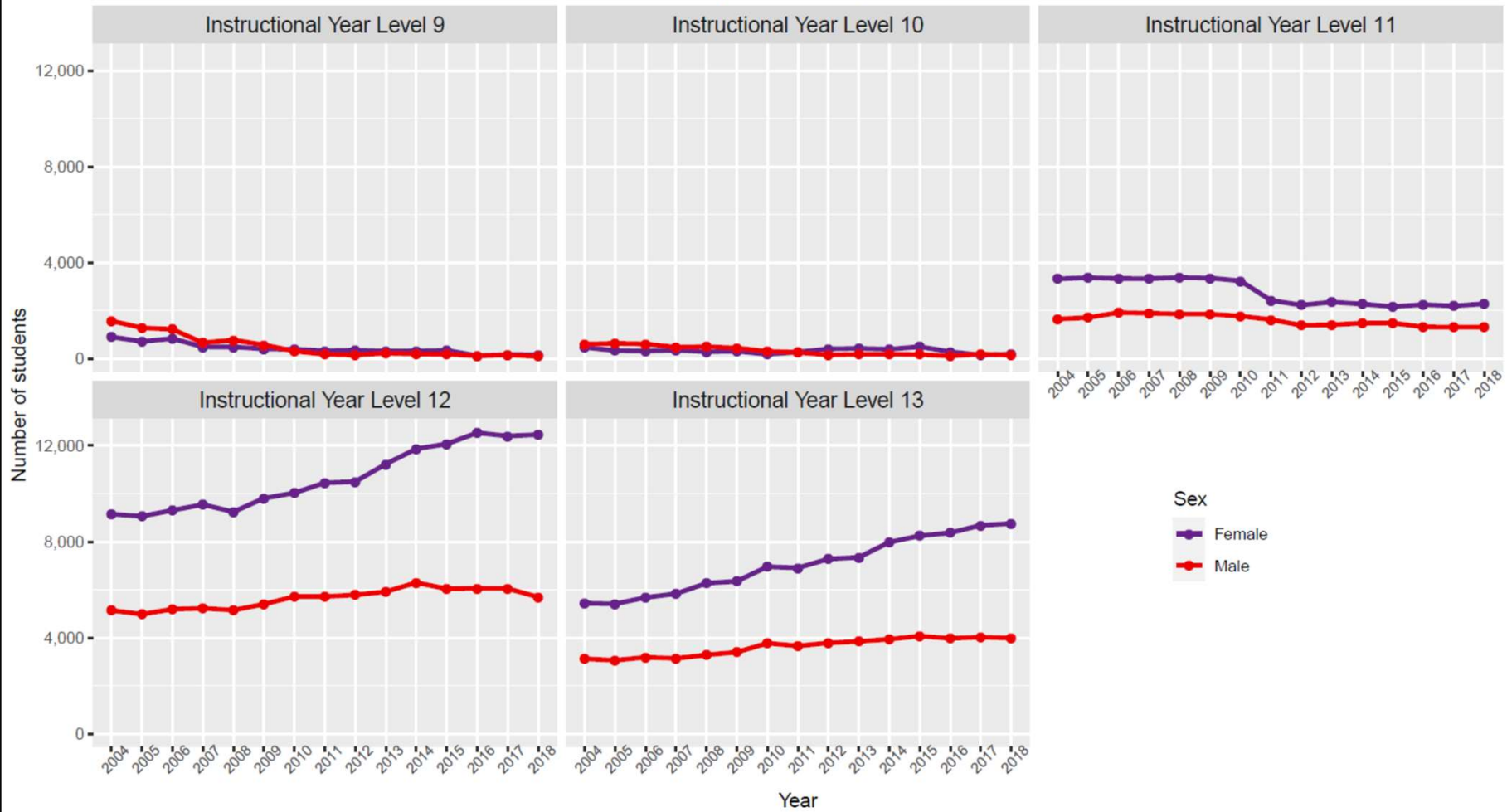
## Science Secondary school from year 9 to 13



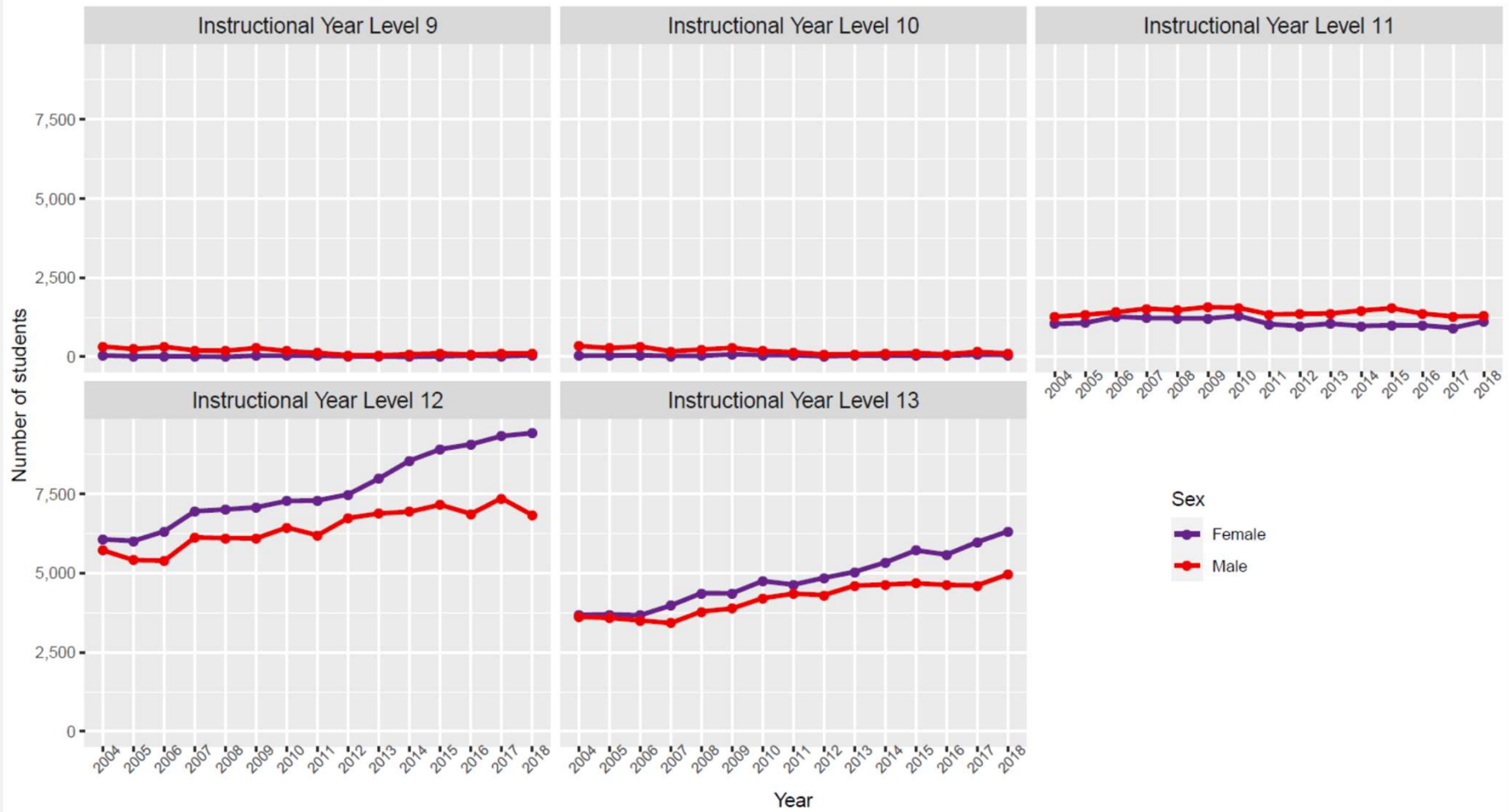
**Mathematical**  
**Secondary school from year 9 to 13**



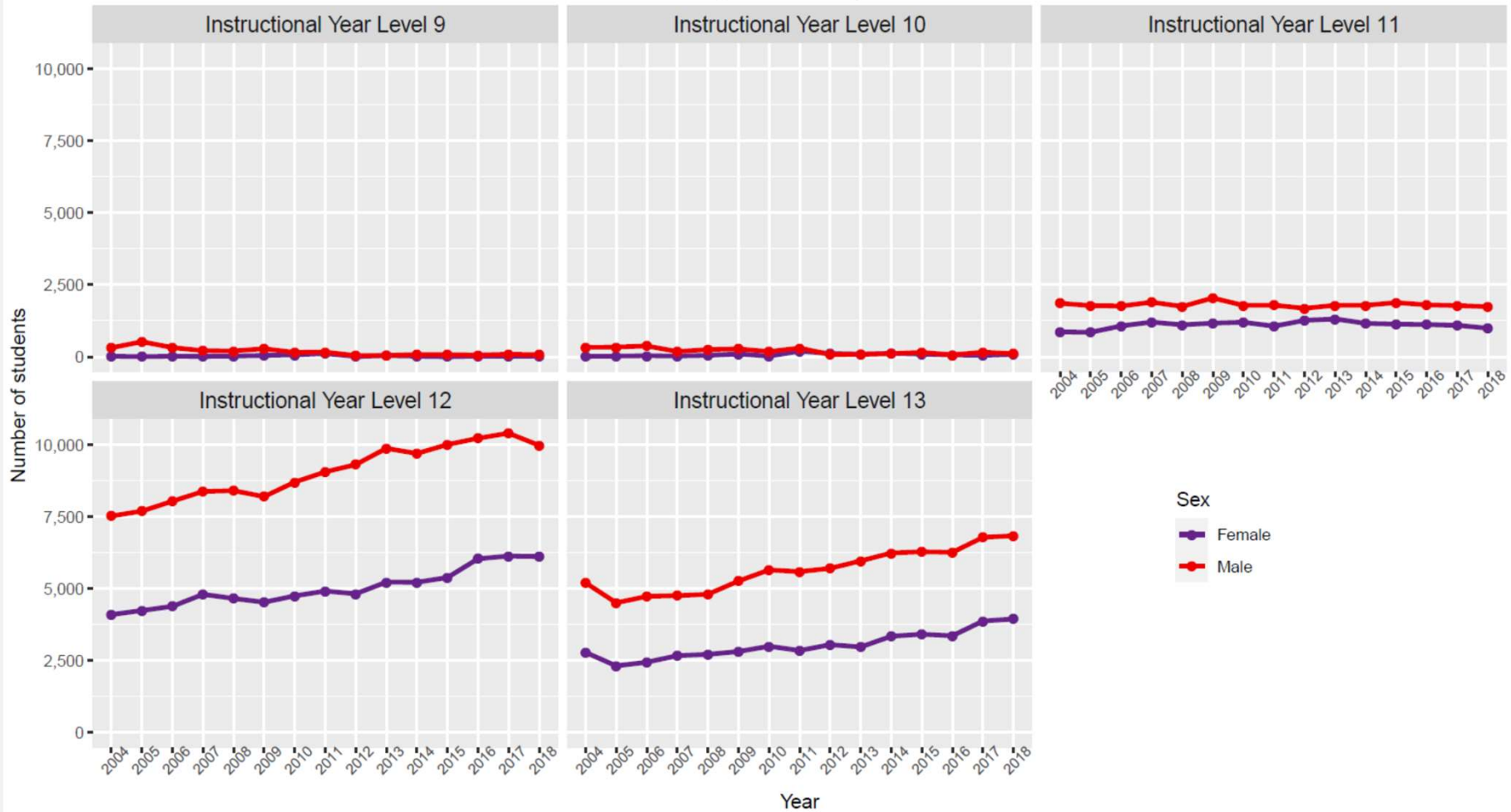
**Biological**  
**Secondary school from year 9 to 13**



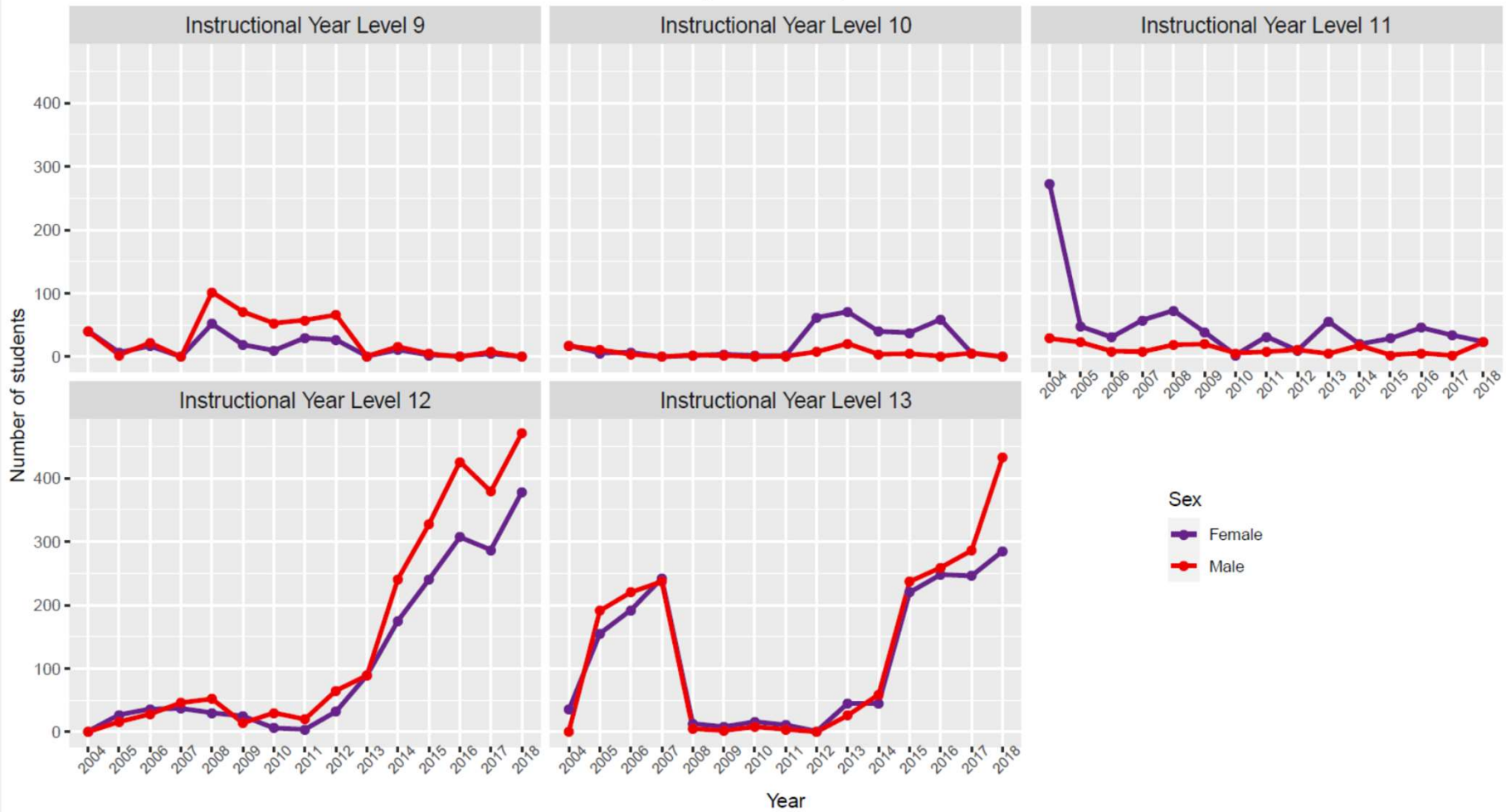
**Chemical**  
**Secondary school from year 9 to 13**



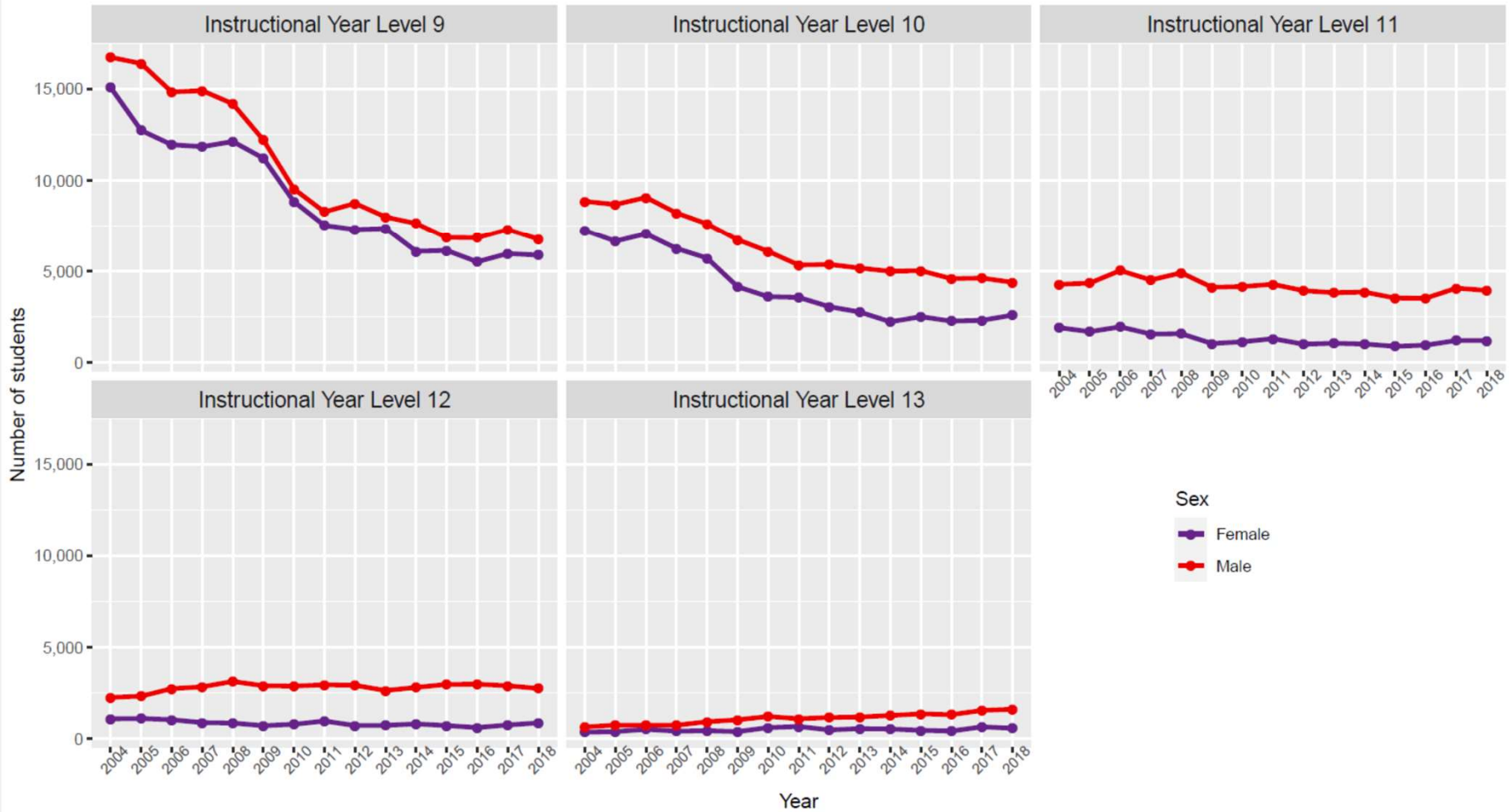
**Physical**  
**Secondary school from year 9 to 13**



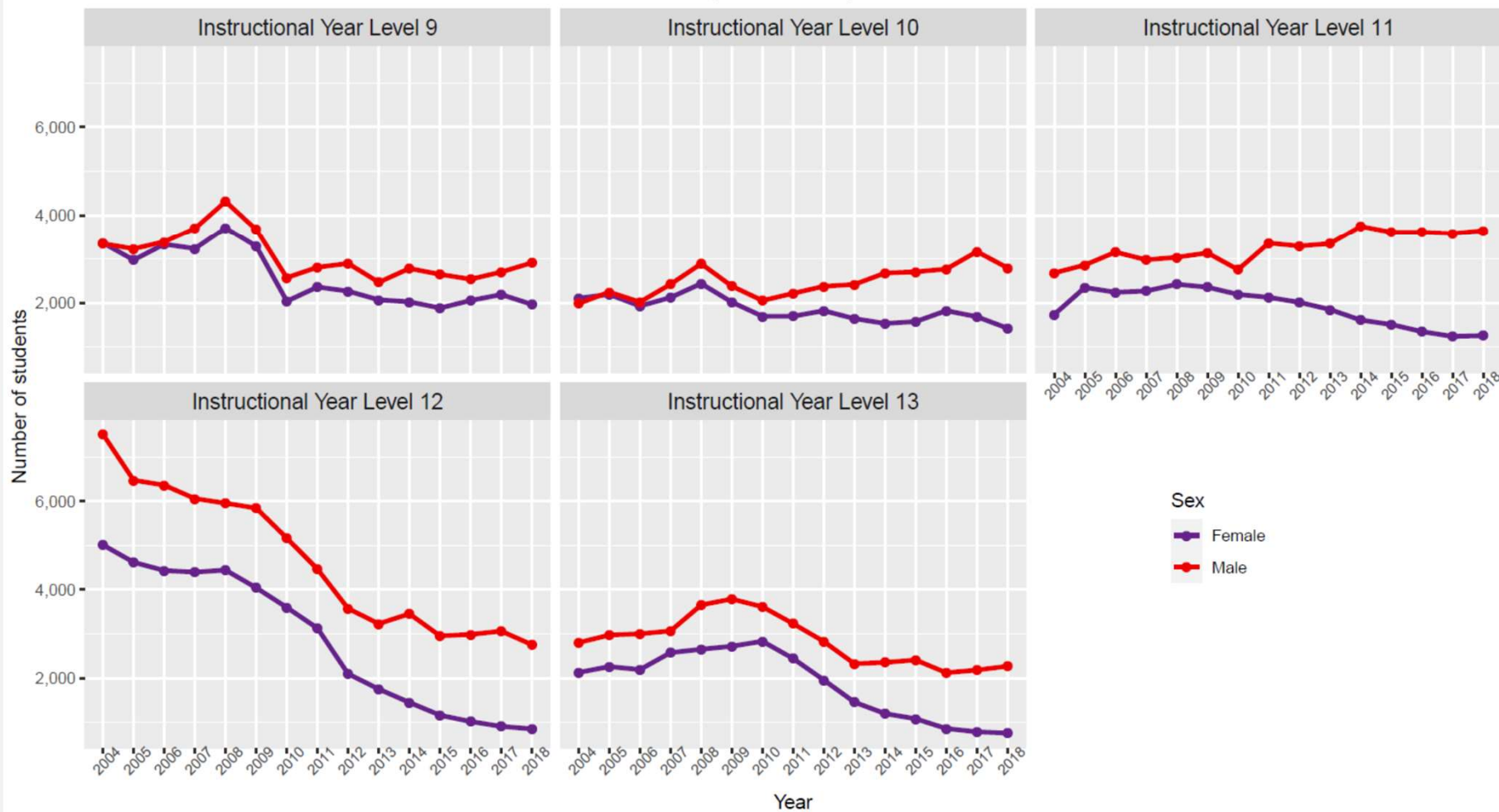
# Earth Secondary school from year 9 to 13



## Technology Secondary school from year 9 to 13

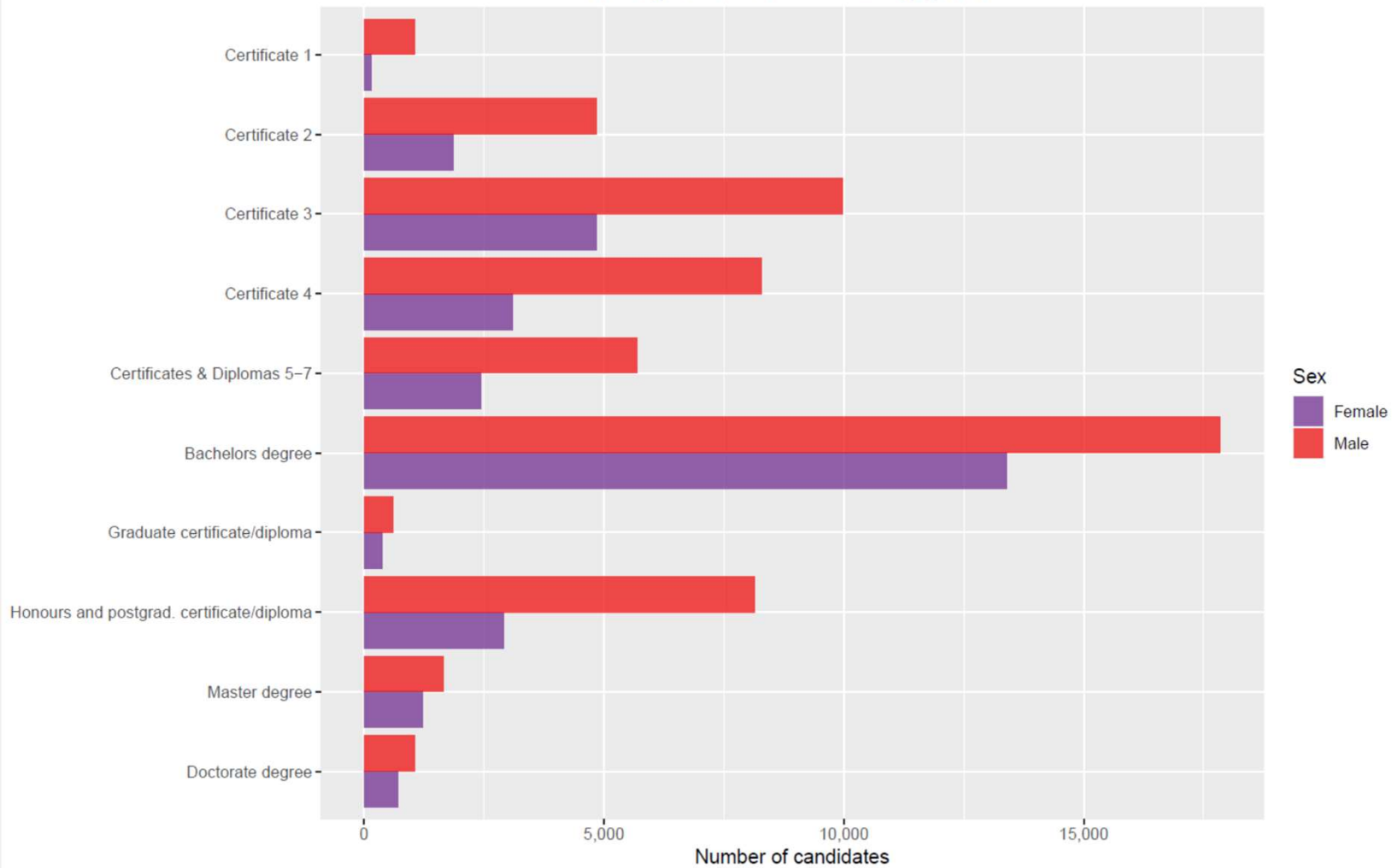


# ICT Secondary school from year 9 to 13

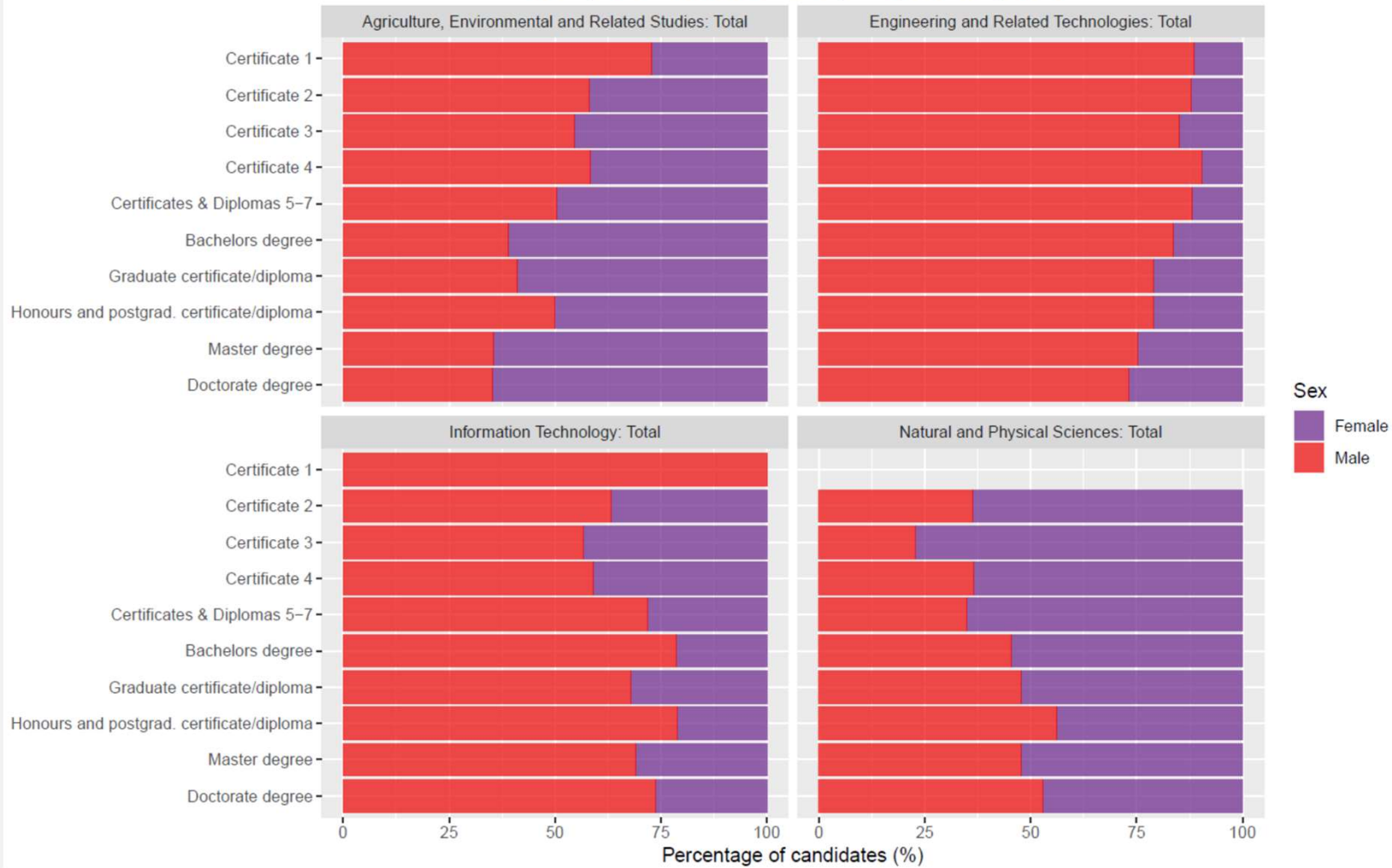


# Enrolment in tertiary studies

Tertiary education in STEM by gender

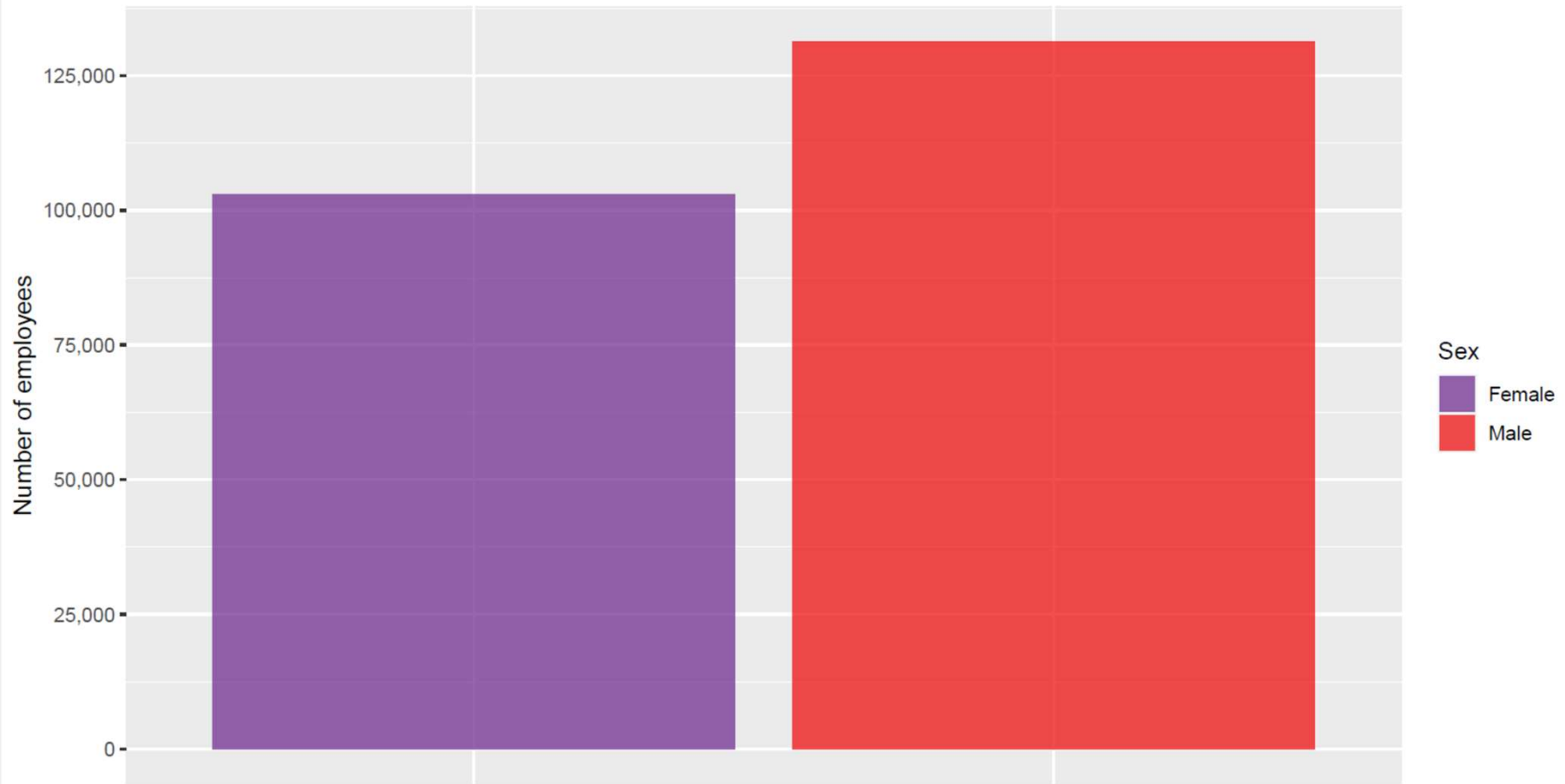


### Tertiary education in STEM by subject and gender

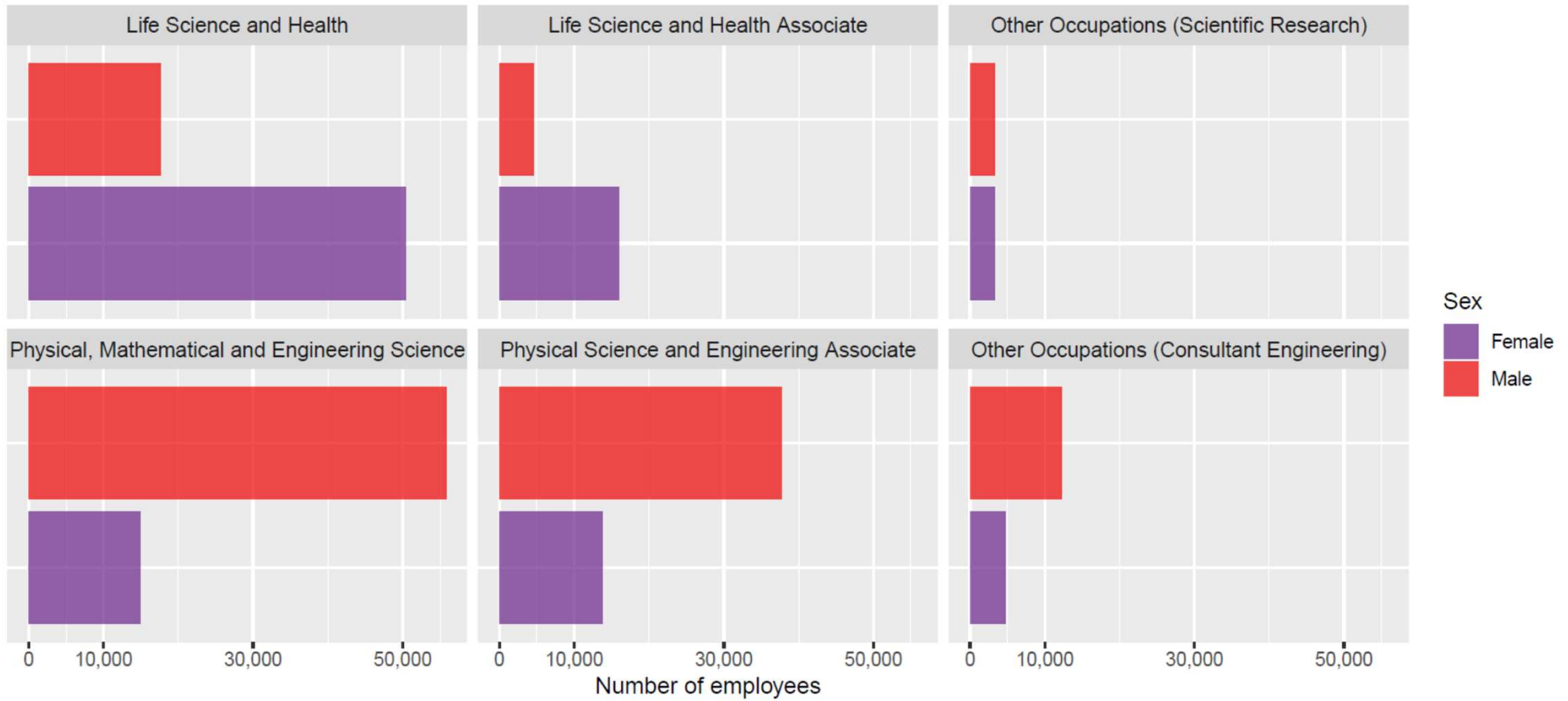


# Employment in STEM

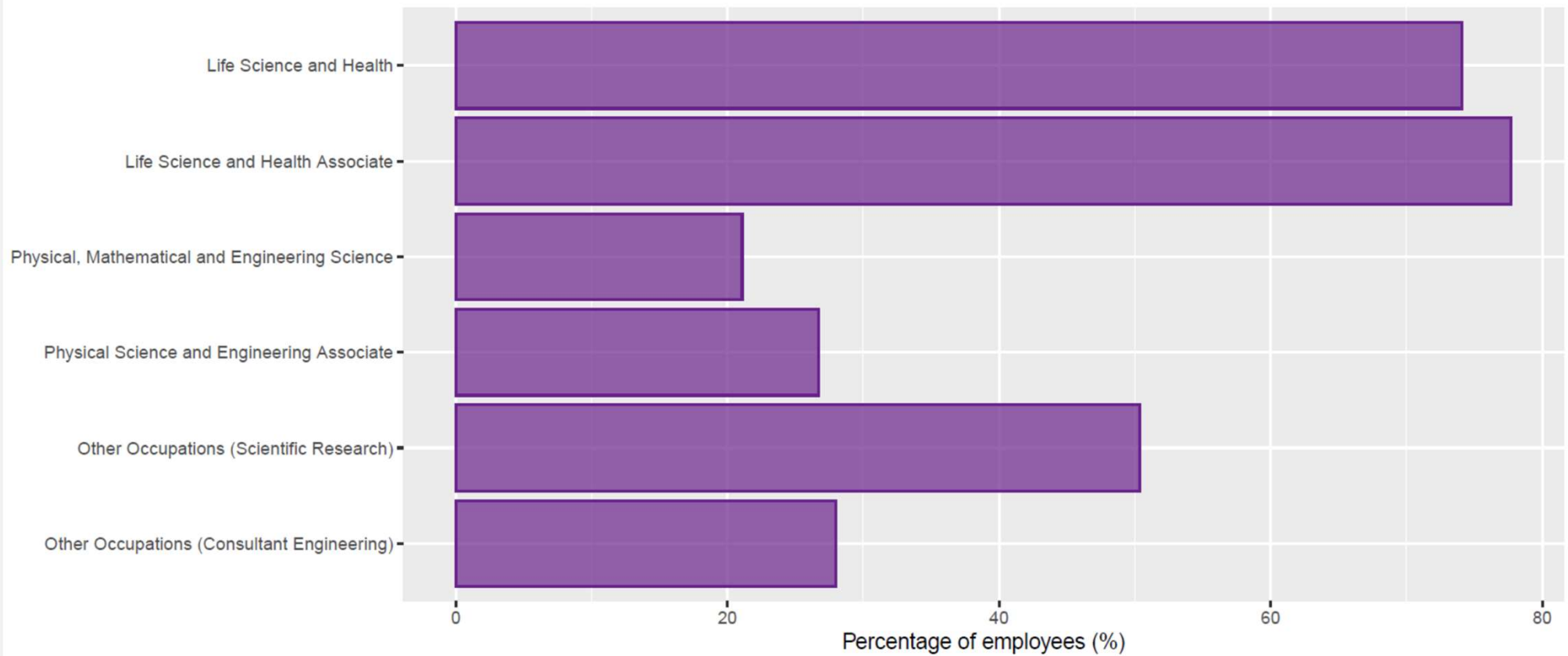
Employed in STEM by gender



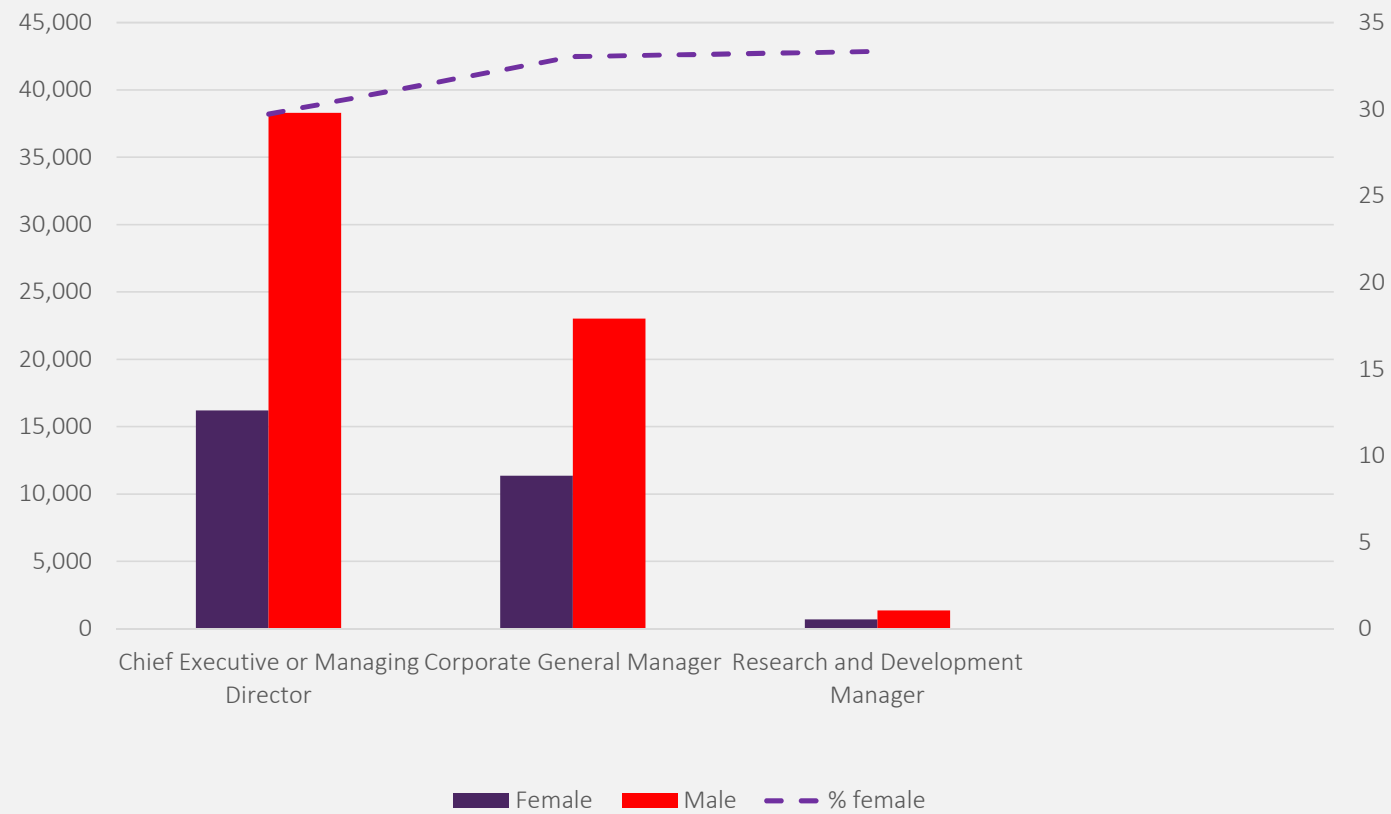
## Employed in STEM per subject



**Female Employment in STEM per subject**



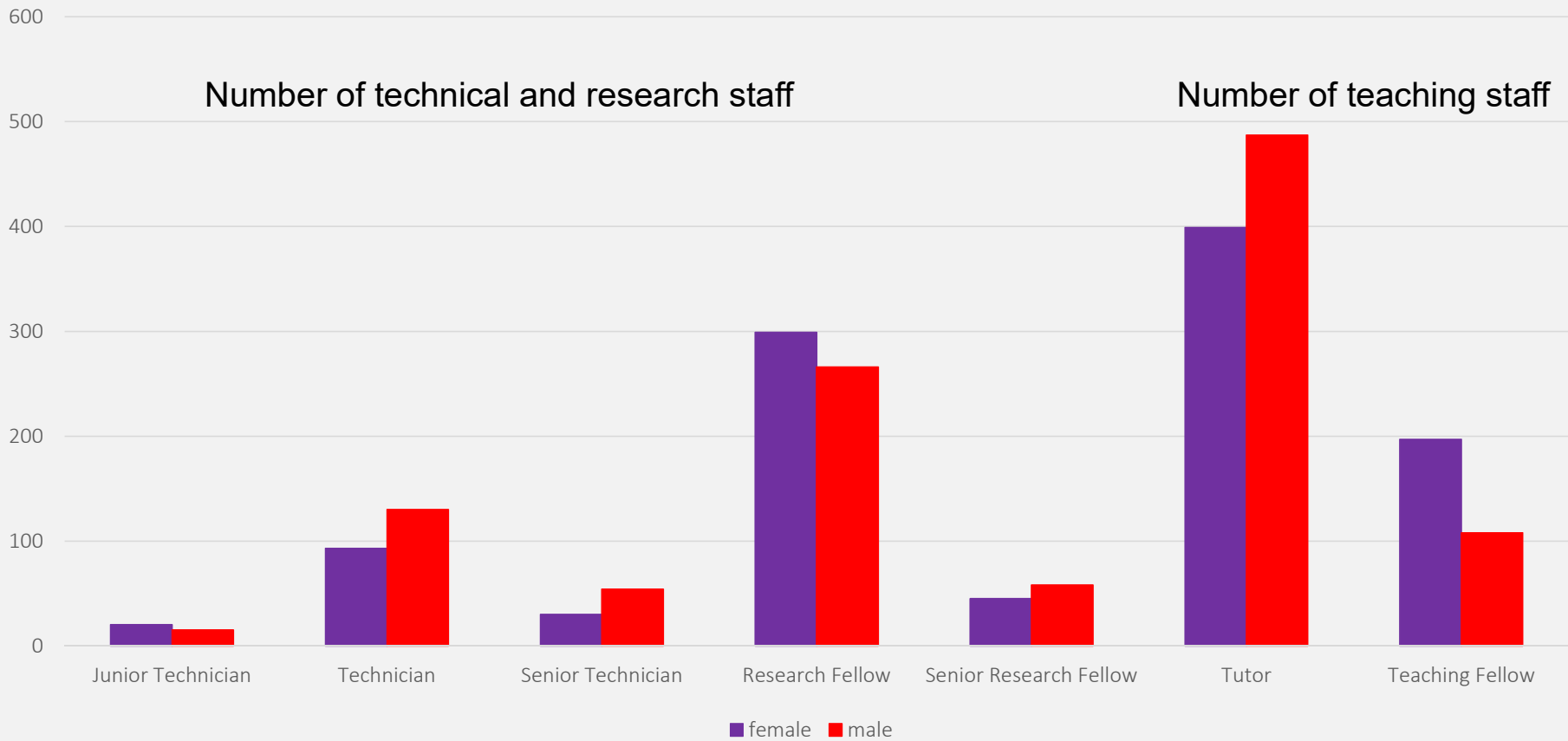
## Senior managers employed in STEM



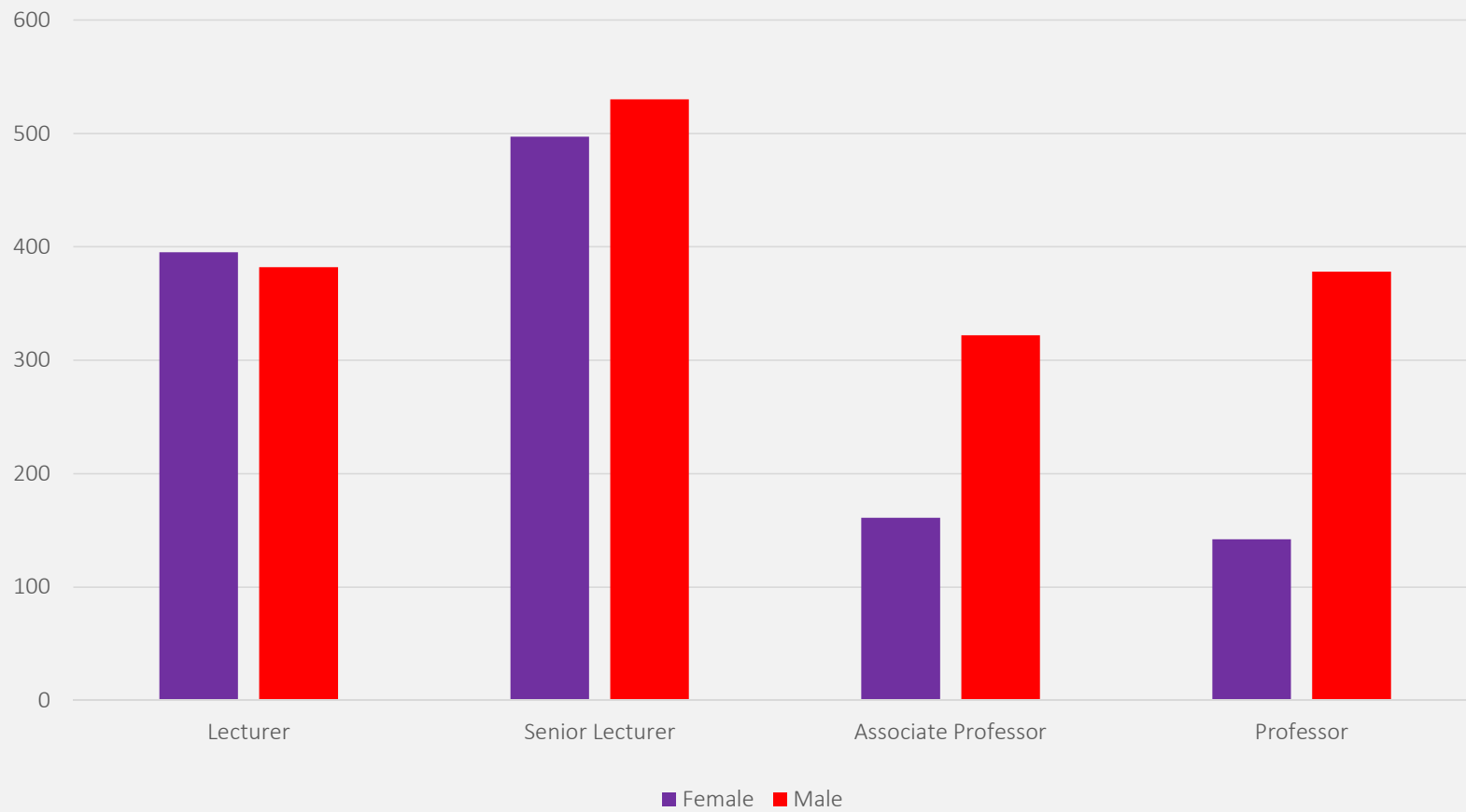
## Staff at tertiary institutions

Number of technical and research staff

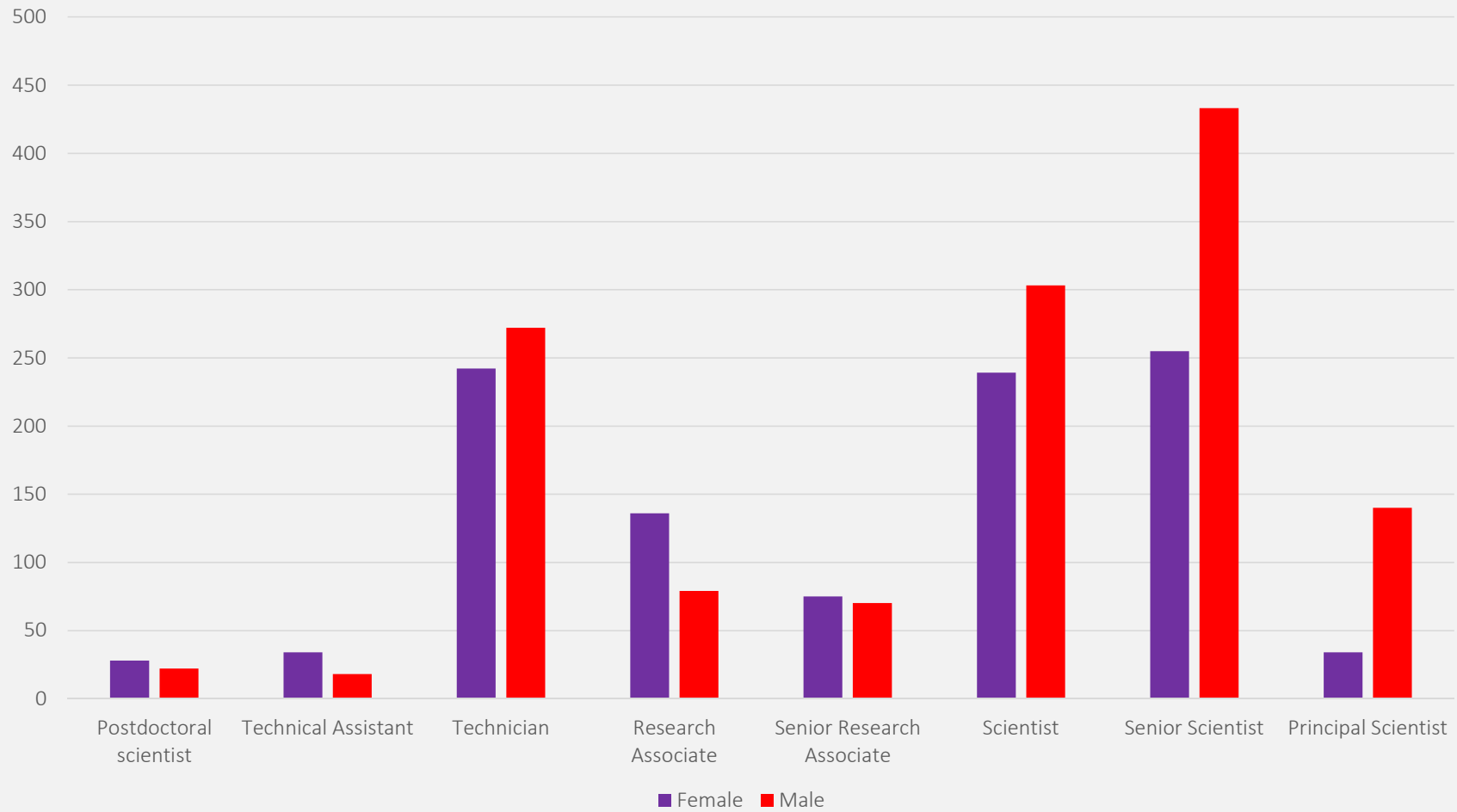
Number of teaching staff



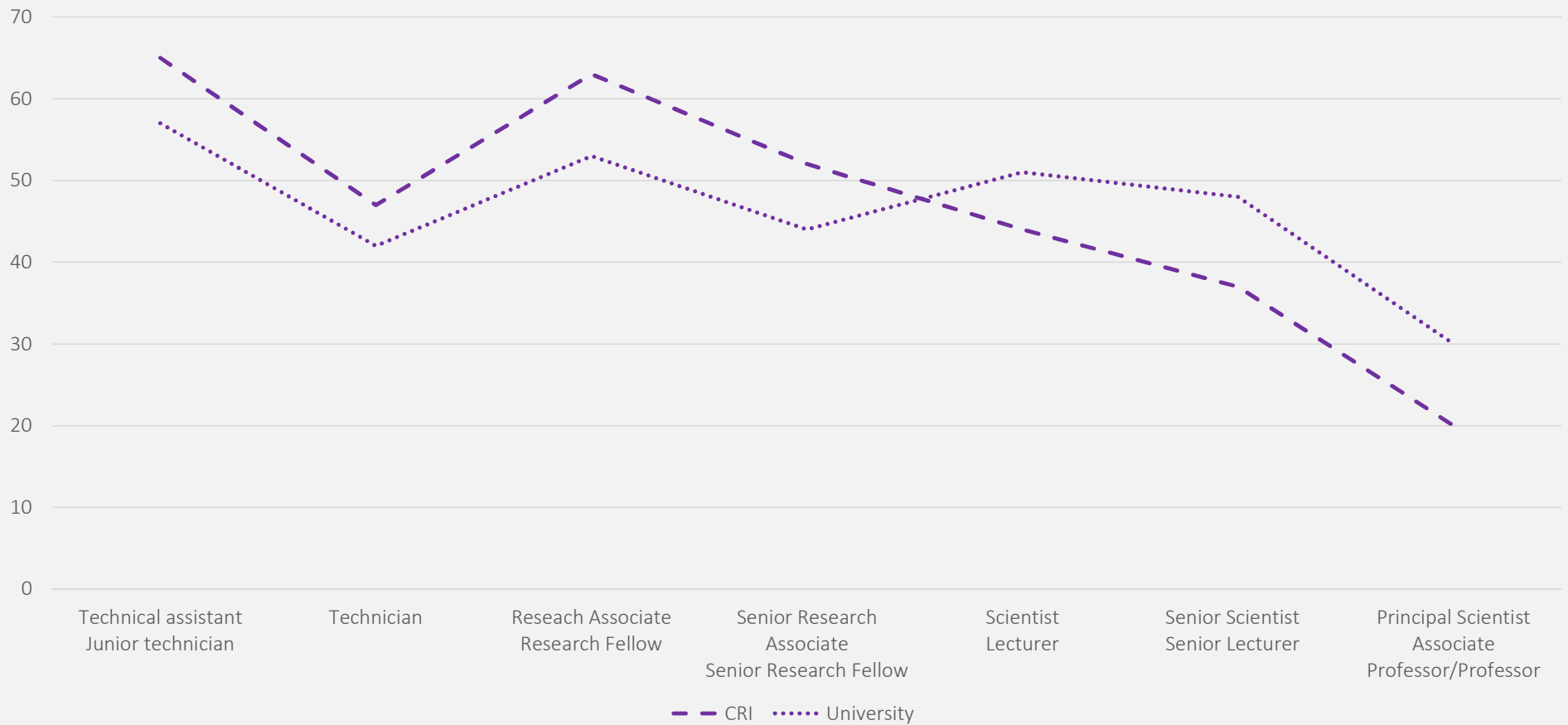
## Tenured staff at tertiary institutions



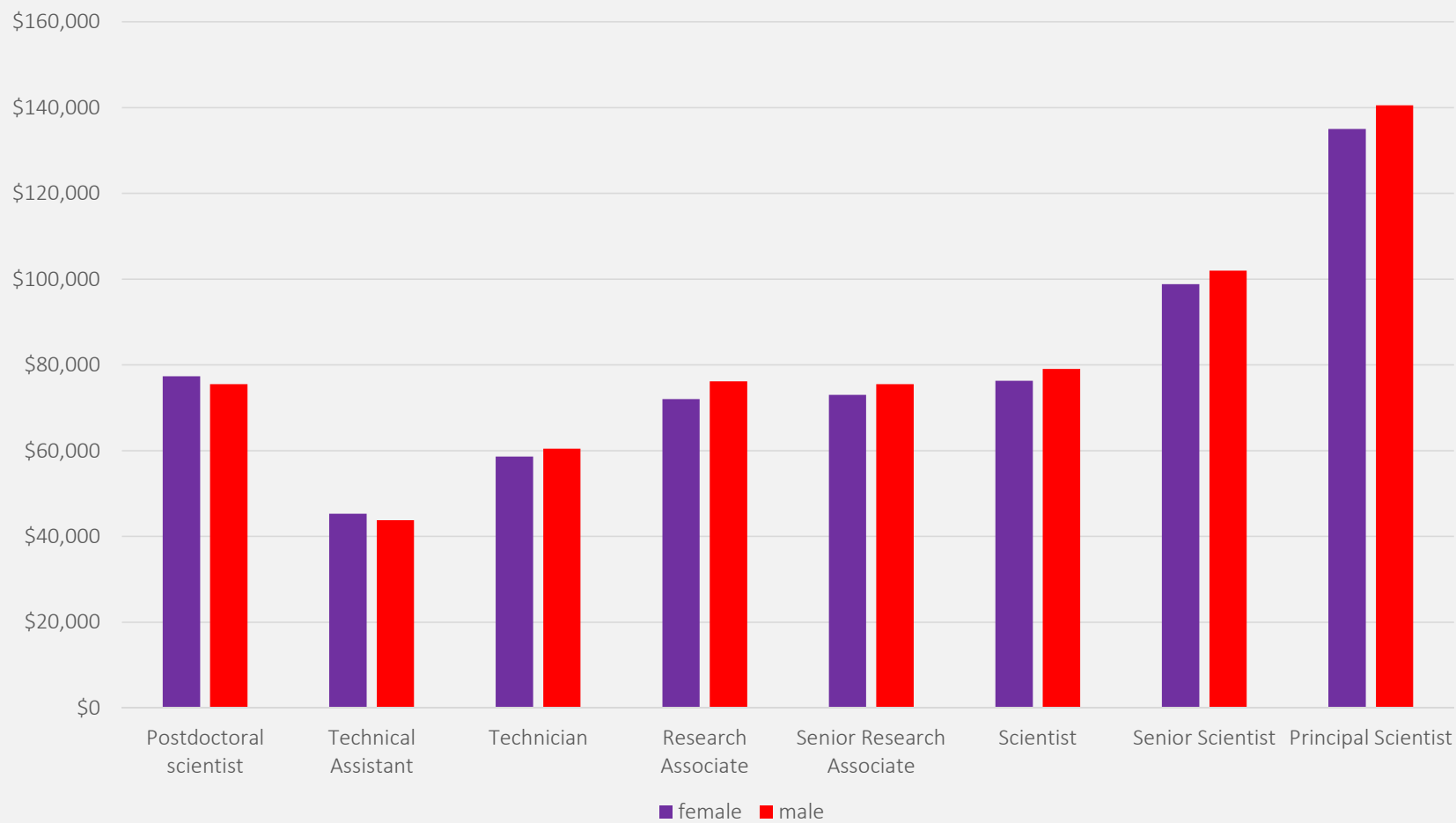
## Number of staff at CRIs



## Percentage of females at each stage of career



## Average median salary at Crown Research Institutes



# Sources of data

- Ministry of Education – [educationcounts.govt.nz](http://educationcounts.govt.nz)
- Statistics New Zealand – [stats.govt.nz](http://stats.govt.nz)
- CRIs
  - AgResearch
  - ESR
  - GNS
  - Manaaki Whenua Landcare Research
  - NIWA
  - Plant & Food Research
  - Scion
- Tertiary institutions
  - AUT
  - Massey University
  - NMIT
  - Unitec
  - University of Auckland
  - University of Canterbury
  - University of Waikato

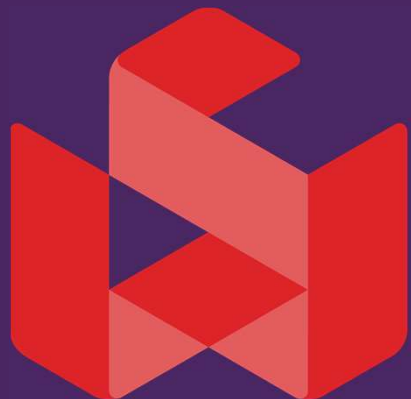
# Who did the work?

## Heloise Pavanato

- Submitted PhD in Statistics (waiting for oral defence)
- Background in statistical ecology and marine science
- Came to NZ from Brazil for her PhD studies

## Emma Timewell

- National Convenor of AWIS



**ASSOCIATION  
FOR WOMEN IN  
THE SCIENCES**

THANKS FOR  
WATCHING