

HORIZON  
2020

# Laser Ionization and Spectroscopy of Actinide elements

## Fact Sheet

### Project Information

#### LISA

Grant agreement ID: 861198

[Project website](#)

#### DOI

[10.3030/861198](https://doi.org/10.3030/861198)

Project closed

#### EC signature date

12 August 2019

#### Start date

1 November 2019

#### End date

30 September 2024

#### Funded under

EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

#### Total cost

€ 3 994 657,56

#### EU contribution

€ 3 994 657,56

#### Coordinated by

ORGANISATION EUROPEENNE  
POUR LA RECHERCHE  
NUCLEAIRE

 Switzerland

## Project description

### Lasting impact expected from the study of short-lived elements

Uranium and plutonium are perhaps the best-known actinides, a large group of radioactive elements most of which are highly unstable and as of yet only produced synthetically via nuclear reactions in particle accelerators. Actinides also include obscure elements like Curium, Einsteinium, Fermium and Mendeleevium named after famous scientists. Although actinides have been crucial to our basic understanding of nuclear chemistry and applications including nuclear power, they are still largely a mystery due to their ephemeral natures. The EU-funded LISA project brings together

12 partners focused on preparing 15 PhD students to shine the light on actinides. The consortium plans to develop novel laser technologies enabling the creation and study of actinides for the development of new applications.

## Fields of science (EuroSciVoc)

[natural sciences](#) > [physical sciences](#) > [optics](#) > [laser physics](#)

[natural sciences](#) > [physical sciences](#) > [optics](#) > [spectroscopy](#)



## Keywords

[actinides](#)

[tuneable lasers](#)

[resonance ionization](#)

[laser spectroscopy](#)

[ionization potential](#)

[electron affinity](#)

[nuclear properties](#)

[medical radioisotopes](#)

[radioecology](#)

[radioactive ion beams](#)

## Programme(s)

[H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions](#)

MAIN PROGRAMME

[H2020-EU.1.3.1. - Fostering new skills by means of excellent initial training of researchers](#)

## Topic(s)

[MSCA-ITN-2019 - Innovative Training Networks](#)

## Call for proposal

[H2020-MSCA-ITN-2019](#)

[See other projects for this call](#)

## Funding Scheme

[MSCA-ITN - Marie Skłodowska-Curie Innovative Training Networks \(ITN\)](#)

# Coordinator



## ORGANISATION EUROPEENNE POUR LA RECHERCHE NUCLEAIRE

Net EU contribution

€ 609 432,72

Total cost

€ 609 432,72

Address

ESPLANADE DES PARTICULES 1 PARCELLE 11482 DE MEYRIN BATIMENT CADASTRAL  
1046

1211 Meyrin

Switzerland

Region

Schweiz/Suisse/Svizzera > Région lémanique > Genève

Activity type

**Research Organisations**

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

## Participants (10)

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## KATHOLIEKE UNIVERSITEIT LEUVEN

Belgium

Net EU contribution

€ 512 640,00

Address

OUDE MARKT 13

3000 Leuven

Region

Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**€ 512 640,00**

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## JYVASKYLAN YLIOPISTO

 Finland

Net EU contribution

**€ 280 805,76**

Address

**SEMINAARINKATU 15**  
**40100 Jyvaskyla** 

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**€ 280 805,76**

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## JOHANNES GUTENBERG-UNIVERSITAT MAINZ

 Germany

Net EU contribution

**€ 505 576,80**

Address

**SAARSTRASSE 21**  
**55122 Mainz** 

Region

**Rheinland-Pfalz > Rheinhessen-Pfalz > Mainz, Kreisfreie Stadt**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**€ 505 576,80**

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## GOETEBORGS UNIVERSITET

 Sweden

Net EU contribution

**€ 281 982,96**

Address

**VASAPARKEN**

**405 30 Goeteborg** 

Region

**Södra Sverige > Västsverige > Västra Götalands län**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**€ 281 982,96**

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## GSİ HELMHOLTZZENTRUM FÜR SCHWERIONENFORSCHUNG GMBH

 Germany

Net EU contribution

**€ 252 788,40**

Address

**PLANCKSTRASSE 1**

**64291 Darmstadt** 

Region

**Hessen > Darmstadt > Darmstadt, Kreisfreie Stadt**

Activity type

## Other

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**€ 252 788,40**

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## FRIEDRICH-SCHILLER-UNIVERSITÄT JENA

 Germany

Net EU contribution

**€ 252 788,40**

Address

**FÜRSTENGRABEN 1**

**07743 JENA** 

Region

**Thüringen > Thüringen > Jena, Kreisfreie Stadt**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**€ 252 788,40**

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## RIJKSUNIVERSITEIT GRONINGEN

 Netherlands

Net EU contribution

**€ 265 619,88**

Address

**Broerstraat 5**

**9712CP Groningen** 

Activity type

## Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**€ 265 619,88**

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## GOTTFRIED WILHELM LEIBNIZ UNIVERSITAET HANNOVER

 Germany

Net EU contribution

**€ 252 788,40**

Address

**WELFENGARTEN 1**  
**30167 Hannover** 

Region

**Niedersachsen > Hannover > Region Hannover**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**€ 252 788,40**

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## HUBNER GMBH & CO KG

 Germany

Net EU contribution

**€ 252 788,40**

Address

**HEINRICH-HERTZ-STR 2**  
**34123 Kassel** 

Region

Hessen > Kassel > Kassel, Kreisfreie Stadt

Activity type

**Private for-profit entities (excluding Higher or Secondary Education Establishments)**

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**€ 252 788,40**



## CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE CNRS

 France

Net EU contribution

**€ 274 802,04**

Address

**RUE MICHEL ANGE 3**

**75794 Paris** 

Region

**Ile-de-France > Ile-de-France > Hauts-de-Seine**

Activity type

**Research Organisations**

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

**€ 274 802,04**

**Last update:** 17 February 2025

**Permalink:** <https://cordis.europa.eu/project/id/861198>

European Union, 2025



