



Xabier Sukunza Pérez

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

During the third course of the Bachelor's degree on Chemical Engineering (UPV/EHU) and when I was doing an internship in Novattia Desarrollos Ltd., I participated in the experimental phase of a PhD Thesis about drying of fine and ultrafine sand. As a result, I defended my Bachelor's Thesis about that topic. Subsequently, my Master Thesis (UPV/EHU and UC) was about designing a heat exchanger for the implementation of a gas burner into a spouted bed based pilot plant, which has been awarded in the 23rd ICPME and ICCE3 Student Conferences.

My PhD Thesis, having Roberto Aguado and Martin Olazar as supervisors and with the collaboration of Novattia Desarrollos Ltd. Company, is about proposing innovative advances in the spouted bed technology in the fields of drying, combustion and torrefaction in semi-industrial scales.



Xabier Sukunza Pérez

Surname(s): **Sukunza Pérez**
Name: **Xabier**
DNI: **73139532S**
Date of birth: **27/07/1995**
Gender: **Male**
Nationality: **Spain**
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Contact province: **Navarre**
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Current professional situation

Employing entity: Universidad del País Vasco **Type of entity:** University

Department: Chemical Engineering, Facultad de Ciencia y Tecnología

Professional category: Pre-doc researcher fellow

Start date: 01/07/2019

Type of contract: Grant-assisted student (pre or post-doctoral, others) **Dedication regime:** Full time

Primary (UNESCO code): 332204 - Power transmission; 332809 - Evaporation; 332813 - Fluidization of solids; 332818 - Mass transfer

Performed tasks: In the CPWV research group at UPV/EHU, my research is focused in studying recent advances in drying, combustion and torrefaction of biomass, in a laboratory and semi-industrial scale.

Previous positions and activities

	Employing entity	Professional category	Start date
1	Novattia Desarrollos Ltd.	Head of Engineering Projects	29/10/2018
2	NOVATTIA DESARROLLOS Ltd.	Engineer	06/02/2017
3	NOVATTIA DESARROLLOS Ltd.	Engineer	01/03/2016

1 **Employing entity:** Novattia Desarrollos Ltd. **Type of entity:** Business

Professional category: Head of Engineering Projects

Start-End date: 29/10/2018 - 30/06/2019

Duration: 8 months



- 2** **Employing entity:** NOVATTIA DESARROLLOS Ltd.
Department: I+D+i
City employing entity: Derio, Basque Country, Spain
Professional category: Engineer
Start-End date: 06/02/2017 - 29/12/2017 **Duration:** 11 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Part time
Performed tasks: I was involved in the development of new projects that the company wanted to carry out.

- 3** **Employing entity:** NOVATTIA DESARROLLOS Ltd.
City employing entity: Derio, Basque Country, Spain
Professional category: Engineer
Start-End date: 01/03/2016 - 17/08/2016 **Duration:** 6 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Part time
Performed tasks: I helped the head project engineer to develop a new technology involving spouted bed.



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree

Name of qualification: Bachelor's degree on chemical engineering

City degree awarding entity: Leioa, Basque Country, Spain

Degree awarding entity: Universidad del País Vasco **Type of entity:** University

Date of qualification: 12/07/2017

Average mark: Good

Prize: Graduated achieving excellence

Standardised degree: No

Other postgraduate university studies

Type of education: Masters

Postgraduate qualification: Master's degree on chemical engineering

City degree awarding entity: Leioa, Basque Country, Spain

Degree awarding entity: Universidad del País Vasco **Type of entity:** University

Faculty, institute or centre: Master and Doctoral School

Date of qualification: 30/11/2018

Obtained qualification: 8.65

Standardised degree: No

Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- | | | |
|----------|--|---|
| 1 | Training title: Curso Práctico de Escritura Académica
Awarding entity: Universidad del País Vasco
End date: 14/12/2021 | Type of entity: University
Duration in hours: 32 hours |
| 2 | Training title: Models and Modelling for Researchers
Awarding entity: Universidad del País Vasco
End date: 09/12/2020 | Type of entity: University
Duration in hours: 9 hours |
| 3 | Training title: Measurement and Measuring for Researchers
Awarding entity: Universidad del País Vasco
End date: 18/11/2020 | Type of entity: University
Duration in hours: 9 hours |
| 4 | Training title: Designing and Preparing a Research Publication
Awarding entity: Universidad del País Vasco
End date: 17/06/2020 | Type of entity: University
Duration in hours: 24 hours |



- 5 Training title:** Desingning and Building a Critical State of the Art for Research
Awarding entity: Universidad del País Vasco **Type of entity:** University
End date: 18/03/2020 **Duration in hours:** 24 hours
- 6 Training title:** Seguridad y Manejo de Puente Grúa
Awarding entity: CESLAN FORMACIÓN **Type of entity:** Entidad de Formación
End date: 11/02/2020 **Duration in hours:** 8 hours
- 7 Training title:** UPV/EHU-UPPA Cross-Border Doctorials
Awarding entity: Université de Pau et des Pays l'Adour **Type of entity:** University
End date: 24/10/2019 **Duration in hours:** 36 hours

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Basque	C1	C1	C1	C1	C1
English	C1	C1	C1	C1	C1

Teaching experience

Experience supervising doctoral thesis and/or final year projects

Project title: Operazio baldintzen eragina hondar-biomasen torrefakzioan
Entity: Universidad del País Vasco **Type of entity:** University
Student: Unai Enriquez
Date of reading: 08/09/2021

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Xabier Sukunza; Aitor Pablos; Roberto Aguado; Jorge Vicente; Haritz Altzibar; Martin Olazar. Continuous drying of fine and ultrafine sands in a fountain confined conical spouted bed. Powder Technology. 388, pp. 371 - 379. Elsevier, 21/04/2021.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 2** Xabier Sukunza; Aitor Pablos; Roberto Aguado; Jorge Vicente; Javier Bilbao; Martin Olazar. Effect of the Solid Inlet Design on the Continuous Drying of Fine and Ultrafine Sand in a Fountain Confined Conical Spouted Bed. Industrial & Engineering Chemistry Research. 59 - 19, pp. 9233 - 9241. 22/04/2020.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No

Works submitted to national or international conferences

- 1** **Title of the work:** Waste Valorization (Pastic and Tyres)
Name of the conference: VII Jornadas de Investigación de la Facultad de Ciencia y Tecnología
Corresponding author: No
City of event: Leioa, Basque Country, Spain
Date of event: 16/03/2020
End date: 18/03/2020
Organising entity: Universidad del País Vasco **Type of entity:** University
City organizing entity: Bilbao, Basque Country, Spain
Aitor Atxutegi; Roberto Aguado; Haritz Altzibar; Maider Amutio; Miriam Arabiourrutia; José María Arandes; Aitor Arregi; Maite Artetxe; María Cortazar; Idoia Estiati; Enara Fernández; Iris García; Alazne Gutiérrez; Javier Izquierdo; Gartzén López; Martin Olazar; Santiago Orozco; Aitor Pablos; Roberto Palos; Laura Santamaría; Xabier Sukunza; Mikel Tellabide; David Trueba; Francisco Javier Vela.
- 2** **Title of the work:** Effect of fountain confiner on kaolin entrainment in a conical spouted bed dryer
Name of the conference: 23rd International Congress on Project Management and Engineering
Corresponding author: Yes
City of event: Málaga, Andalusia, Spain
Date of event: 10/07/2019
End date: 12/07/2019
Organising entity: AEIPRO **Type of entity:** Associations and Groups
Xabier Sukunza Pérez; Aitor Pablos Castro; Roberto Aguado Zarraga; Jorge Vicente Peñalosa; Martín Olazar Aurrekoetxea.
- 3** **Title of the work:** Modelling of a heat exchanger for a spouted bed based pilot plant
Name of the conference: 23rd International Congress on Project Management and Engineering
Corresponding author: Yes
City of event: Málaga, Andalusia, Spain



Date of event: 10/07/2019

End date: 12/07/2019

Organising entity: AEIPRO

Type of entity: Associations and Groups

Xabier Sukunza Pérez; Roberto Aguado Zarraga. "Modelling of a heat exchanger for a spouted bed based pilot plant".

4 Title of the work: Effect of feed zone on ultrafine sand entrainment in a conical spouted bed dryer

Name of the conference: ANQUE-ICCE-CIBIQ 2019

Corresponding author: Yes

City of event: Santander, Cantabria, Spain

Date of event: 19/06/2019

End date: 21/06/2019

Organising entity: ASOCIACION NACIONAL DE QUIMICOS DE ESPAÑA

City organizing entity: Spain

Xabier Sukunza Pérez; Aitor Pablos Castro; Jorge Vicente Peñalosa; Roberto Aguado Zarraga; Martín Olazar Aurrekoetxea. "Effect of feed zone on ultrafine sand entrainment in a conical spouted bed dryer".

5 Title of the work: Dynamic model of a heat exchanger for the implementation of a gas burner in a spouted bed based pilot plant

Name of the conference: ANQUE-ICCE 3 Student Conference

Corresponding author: Yes

City of event: Santander, Cantabria, Spain

Date of event: 17/06/2019

End date: 18/06/2019

Organising entity: ASOCIACION NACIONAL DE QUIMICOS DE ESPAÑA

City organizing entity: Spain

Xabier Sukunza Pérez; Roberto Aguado Zarraga. "Dynamic model of a heat exchanger for the implementation of a gas burner in a spouted bed based pilot plant".

6 Title of the work: Drying of ultrafine sands using a fountain confined conical spouted bed

Name of the conference: XXXV Jornadas Nacionales de Ingeniería Química

Corresponding author: Yes

City of event: Salamanca, Castile and León, Spain

Date of event: 06/07/2018

Organising entity: Universidad de Salamanca

Type of entity: University

City organizing entity: Salamanca, Castile and León, Spain

Roberto Aguado Zarraga; Aitor Pablos Castro; Xabier Sukunza Pérez; Jorge Vicente Peñalosa; Martín Olazar Aurrecoechea. "Drying of ultrafine sands using a fountain confined conical spouted bed".



Other achievements

Obtained grants and scholarships

1 **Name of the grant:** PhD Grant (PIF 2018/312)

Aims: Pre-doctoral

Awarding entity: Universidad del País Vasco

Type of entity: University

Conferral date: 13/06/2019

Duration: 4 years

End date: 09/06/2020

Entity where activity was carried out: Universidad del País Vasco

Faculty, institute or centre: Chemical Engineering Department

2 **Name of the grant:** ERASMUS +

Aims: Erasmus+

Awarding entity: Universidad del País Vasco

Type of entity: University

Conferral date: 10/2017

Duration: 6 months

End date: 30/06/2018

Entity where activity was carried out: Norwegian University of Science and Technology (NTNU)

3 **Name of the grant:** Lan Mundura Trantsizioa

City awarding entity: Derio, Basque Country, Spain

Aims: Internship

Awarding entity: Universidad del País Vasco

Type of entity: University

Conferral date: 01/10/2017

Duration: 3 months

End date: 29/12/2017

Entity where activity was carried out: NOVATTIA DESARROLLOS S.L.

4 **Name of the grant:** Santander CRUE CEPYME prácticas en empresas

City awarding entity: Derio, Basque Country, Spain

Aims: Intership

Awarding entity: Universidad del País Vasco

Type of entity: University

Conferral date: 01/02/2016

Duration: 6 months

End date: 31/08/2016

Entity where activity was carried out: NOVATTIA DESARROLLOS S.L.

5 **Name of the grant:** Ayuda para Formación de Profesorado Universitario (FPU18/04935)

Aims: Pre-doctoral

Awarding entity: Ministerio de Ciencia e Innovación. **Type of entity:** Secretaría General de Universidades

Conferral date: 21/05/2020

Duration: 4 years - 40 months

Entity where activity was carried out: Universidad del País Vasco

Faculty, institute or centre: Facultad de Ciencia y Tecnología



Prizes, mentions and distinctions

- 1** **Description:** Best Master thesis award
Awarding entity: AEIPRO
Conferral date: 11/07/2019
Type of entity: Associations and Groups
- 2** **Description:** Award to the best poster communication
Awarding entity: ASOCIACION NACIONAL DE QUIMICOS DE ESPAÑA
Conferral date: 18/06/2019
- 3** **Description:** Graduated achieving excellence
Awarding entity: Universidad del País Vasco
City awarding entity: Leioa, Basque Country, Spain
Conferral date: 17/04/2018
Type of entity: University