

HORIZON 2020

LE PROGRAMME DE RECHERCHE ET
D'INNOVATION DE L'UNION EUROPÉENNE



**Point de Contact National
NMBP**

**Nanotechnologies, Matériaux
avancés, biotechnologie et
procédés de fabrication avancés**

HORIZON 2020

LE PROGRAMME DE RECHERCHE ET
D'INNOVATION DE L'UNION EUROPÉENNE



MINISTÈRE
DE L'ENSEIGNEMENT SUPÉRIEUR
ET DE LA RECHERCHE



Présentation des appels « Economie Circulaire » 2019-2020 dans le WP NMBP



Appels « Economie Circulaire » 2019 du WP NMBP

Appel	Titre	Action	Taille budgétaire (millions €)	Date(s) Limite(s)
Call Transforming European industry - Biotechnologie				
CE-BIOTEC-05-2019:	Microorganism communities for plastics bio-degradation	RIA	Up to 5	24/04/2019
Call Industrial Sustainability - Processus industriel durable (SPIRE)				
CE-SPIRE-04-2019:	Efficient integrated downstream processes	IA	10-14	21/02/2019
CE-SPIRE-05-2019:	Adaptation to variable feedstock through retrofitting	IA (50%)	8-12	21/02/2019
Call Industrial Sustainability - Catalyser l'économie circulaire				
CE-NMBP-25-2019:	Photocatalytic synthesis	RIA	5-7	22/01/2019 03/09/2019

★★★ ★ Appels « Economie Circulaire » 2020 du WP NMBP

Appel	Titre	Action	Taille budgétaire (millions €)	Date(s) Limite(s)
CALL INDUSTRIAL SUSTAINABILITY-Processus industriel durable (SPIRE)				
CE-SPIRE-08-2020:	Novel high performance materials and components for future low carbon technologies and processes	RIA	4-6	?
CALL INDUSTRIAL SUSTAINABILITY- L'Economie Circulaire dans l'industrie				
NMBP-xx-2020	Materials lifecycle analysis methodology for the circular economy	RIA	6	?
CE-SPIRE-01-2020:	Tapping into the potential of Industrial Symbiosis (IA – 50%)	IA	15-20	?
CE-SPIRE-07-2020:	Near zero discharge for fresh water used by industry	IA	8-12	?
CE-SPIRE-09-2020:	Mineral waste, by-products and recycled material as feed for high volume production	IA	6-8	?



CE-BIOTEC-05-2019: Microorganism communities for plastics bio-degradation

- ✓ 2019
- ✓ Single Stage
- ✓ RIA
- ✓ Up to 5M€
- ✓ 2 Projects

✓ Transforming European industry - Biotechnologie

- Development of environmentally friendly and sustainable solutions for managing the waste of plastics mixtures based on the use of communities of microorganisms with a set of complementary enzymes.
- Production of cocktails of enzymes using communities of microorganisms capable of degrading mixtures of biodegradable and currently non-biodegradable plastics into more basic chemical constituents;
 - microorganism combination at least 3 novel/improved enzymatic activities for plastic mixture degradation
 - Degradation of at least 20 % of non-biodegradable plastics found in plastic
- Multidisciplinary approach based on biotechnology
- High value products and valorise mixed plastic waste
- Sustainable and environmentally friendly PILOT SYSTEM for the degradation of plastic mixtures
- TRL 3-5
- International Cooperation: EU-China flagship initiative on Biotechnology for Environment and Human Health



CE-SPIRE-04-2019: Efficient integrated downstream processes

- ✓ 2019
- ✓ Single Stage
- ✓ IA
- ✓ 10-14 M€
- ✓ 2-3 projets
- ✓ PPP SPIRE
- ✓ Industrial Sustainability

- Novel solutions for a deeper integration of upstream and downstream processing operations.
- Intensified process technologies
- Modular & flexible solutions
- Technologies to increase productivity, quality of products, reducing environmental footprint
- Integration in current industrial scenario, replicability in different sectors
- DEMONSTRATION in industrial environment, in real industrial settings
- Added value: activities' integration into existing Plants and industrial operations
- TRL 5-7
- Cooperation with existing projects
- Accessibility & reusability of data
- Actions under SPIRE are expected to take into account the Industrial Emissions Directive



✓ 2019
✓ Single Stage
✓ IA (50 %)
✓ 8-12 M€
✓ 2-3 projets
✓ PPP SPIRE
✓ Industrial Sustainability

CE-SPIRE-05-2019: Adaptation to variable feedstock through retrofitting

- Simulation models and decision support tools for the production chain
- Demonstration of the technology in different process industries
 - ➡ Demonstrate the feasibility and suitability of the concepts of retrofitting at industrial scale.
- Actions designed to facilitate cooperation with other projects; to enhance user involvement; and to ensure the accessibility and reusability of data produced in the course of the project
- Development of tools and methodologies to streamline and support retrofitting;
- Optimisation of performances by efficient operational conditions
- **TRL 5-7**
- Reduced OPEX by 30% and increased productivity by 20%;
- Education/training experts of SPIRE sectors



CE-NMBP-25-2019: Photocatalytic synthesis

- Development of cheap materials and integrated processes/devices for direct photocatalytic conversion of CO₂ and H₂O to fuels and/or chemicals, with an overall solar-to-hydrogen efficiency of >20%,
- selectivity and efficiency by rational engineering of the bandgap and electronic structures;
- Technology Validation by demonstration of a photo- or photoelectrochemical reactor/integrated device of the size of the existing photovoltaic cells
- International cooperation encouraged (COM(2012) 497).
- Life cycle Assessment
- Improved energy efficiency and reduction of CO₂ emissions
- TRL 3-5

✓ 2019
✓ Two-
Stages
✓ RIA
✓ 5-7 M€
✓ 2-3
projets



Pour plus d'information

Un site national

<http://www.horizon2020.gouv.fr>

The screenshot shows the homepage of the French National Portal for the European Research and Innovation Programmes (Horizon 2020). The page features a large banner with the text "HORIZON 2020" and "LE PORTAIL FRANÇAIS DU PROGRAMME EUROPÉEN POUR LA RECHERCHE ET L'INNOVATION". Below the banner are several navigation links: "ESPACE EUROPÉEN DE LA RECHERCHE", "HORIZON 2020", "COMMENT PARTICIPER?", "POUR VOUS AIDER", "AUTRES PROGRAMMES", and "PME". A search bar with a magnifying glass icon and a link to "Recherche avancée multicritères" are also present. Two red arrows point from the text "Soumettre un pro" and "Point de Contacts Nationaux" to the "COMMENT PARTICIPER?" and "POUR VOUS AIDER" buttons respectively. A watermark for "HORIZON 2020" is visible in the bottom left corner of the screenshot.

Soumettre un pro
Point de Contacts
National



Pour plus d'information

Informations générales, événements et présentations du PCN NMBP :
Site du PCN NMBP : <http://www.horizon2020.gouv.fr/pid30004/nmp.html>



pcn-nmp@recherche.gouv.fr

RECHERCHE AVANÇÉE MARCHÉS

AGENDA

20 SEP
Forum Horizon 2020 des Pays de la Loire
📍 NANTES

25 SEP
Journée d'information nationale : Les sciences humaines et sociales dans les défis sociétaux
📍 LA PLAINE SAINT-DENIS

[Tous les événements](#)

APPELS EN COURS

➤ Liste des appels ouverts
➤ Programmes de travail 2018-2020

ANTICIPER LES PROCHAINS APPELS

➤ Le dispositif national

NMBP (NANOTECHNOLOGIES MATÉRIAUX BIOTECHNOLOGIE PRODUCTION)

Actualités



13.09.2018
Mise en ligne des présentations et de la captation du webinar sur le mécanisme de Soutien Financier à des tiers

Les présentations et la captation du webinar organisé le 6 septembre 2018 sur le mécanisme de Soutien Financier à des tiers sont disponibles en ligne.
[Lire la suite](#)

31.08.2018
Concrétiser, tester et promouvoir les technologies robotiques, webinaires du projet ESMERA
[Lire la suite](#)

27.08.2018
Le projet européen Amable - adopter les technologies de fabrication additive
[Lire la suite](#)

27.08.2018
Le projet européen ESMERA - concrétiser, tester et promouvoir les technologies robotiques
[Lire la suite](#)

27.06.2018
Mise en ligne des présentations du Brokerage Event Efficacité Energétique
[Lire la suite](#)

LE POINT DE CONTACT NATIONAL

➤ Présentation et contacts
➤ Pour mieux vous connaître

LES KET NMBP

➤ Les technologies clés génériques, KET, dans Horizon 2020
➤ KET Biotechnologies
➤ KET Matériaux avancés
➤ KET Nanotechnologies
➤ KET Systèmes de production

ZOOM SUR

➤ Documents clés N.M.B.P.

Les liens utiles

The screenshot shows two side-by-side web pages. On the left is the 'NMP TeAm' Partner Search interface, featuring a logo of blue and grey dots, a dark blue header bar, and a search form with fields for 'Username (E-Mail address)' and 'Password'. A 'login' button is at the bottom. On the right is the 'scanR' search engine homepage, which has a large logo with a network icon, a search bar with placeholder text 'Ex: biotechnologies, "open government", "Institut Pascal", "UMR 7534", "Projet DYNOTEP" ...', a 'RECHERCHER' button, and a row of partner logos for 'Référentiels', 'Crossref', 'datainfogreffe', 'GRID', 'Insee', and 'rnSr'.

NMP TeAm

Home >> Partner Search >> NMP Partnersearch Home

PARTNER SEARCH

Login

Username (E-Mail address):

Password:

login

Partn
Nanot
HORIZ

Référentiels Crossref datainfogreffe GRID Insee rnSr

The NMP TeAm Partner Search Facility has been esta support to its clients. This web service is strictly focu technologies **Nanotechnologies, Advanced Material of HORIZON 2020**, related actions like FET open, ER/ inducement prize (Horizon Prize on materials for clo

Base de données des acteurs R&I :

- ❖ ScanR : <https://scanr.enseignementsup-recherche.gouv.fr/>

Recherche de partenaires :

- ❖ NMP Team (topics NMBP) : <https://www.nmp-partnersearch.eu/index.php>
- ❖ Europe Entreprise Network (EEN) :
<http://een.ec.europa.eu/tools/services/SearchCenter/Search/ProfileSimpleSearch>

Merci de votre attention

NMBP

LES POINTS DE CONTACT NATIONAUX



Les Points de Contact Nationaux (P.C.N.) d'Horizon 2020 sont chargés de diffuser l'information et de sensibiliser la communauté de la recherche et de l'innovation aux programmes européens.



Le Point de Contact National NMBP est en charge de la thématique "Nanotechnologies, matériaux avancés, Biotechnologie et procédés avancés de fabrication".

Vos contacts PCN NMBP :

✉ Contact (adresse courriel générique pour contacter les membres du PCN)

Prénom - NOM	Rôle	Etablissement	Téléphone
Hélène ULMER-TUFFIGO	Coordinatrice du PCN et Représentante au Comité de Programme	Ministère de l'Enseignement supérieur, de la Recherche et de l'Innovation	
Aristide SUN	Représentant au Comité de Programme	Ministère de l'Economie - DGE	
 Olivia CAHN	PCN	Pôle EMC2	33 2 28 44 36 98
 Mathilde BRUYERE	PCN	INSAVALOR	33 4 72 43 83 93
 Mickaël KOUROPATOFF	PCN	Université Bretagne Loire / site de Nantes	33 2 28 08 14 19
 Marina URBINA	PCN	CEA Grenoble	33 4 38 78 53 95