

PERSONAL INFORMATION

Replace with First name(s) Surname(s)Gheorghe BRĂTUCU

[All CV headings are optional. Remove any empty headings.]

✉ e-mail address: gh.bratucu@unitbv.ro

POSITION
IOSUD UTBVPhD Coordinator
Doctoral studies field Mechanical Engineering

Since (year) 1997

EXPERTISE FIELD AND
RESEARCH INTEREST AREAS

Please specify your main expertise field(s) and areas of interest in research, in correlation with the coordinated doctoral field -

Reliability and maintenance of technical equipment
Calculation and manufacture of agricultural and food industry machinery
Internal transport in the food industry and agriculture
Optimizing energy consumption in the food industry and agriculture

WORK EXPERIENCE

Replace with dates (from - to)

[Add separate entries for each experience. Start from the most recent.]

Replace with occupation or position held

Replace with employer's name and locality (if relevant, full address and website)

Transilvania University of Braşov, Str.B-dul Iuliu Maniu Nr. 29, Braşov, Romania, www.unitbv@.ro

▪ Replace with main activities and responsibilities

- Didactic activities with the students from the Faculty of Mechanical Engineering and Faculty of Food and Tourism
- PhD Coordinator in Mechanical Engineering, 28 confirmed doctors and 5 PhD students
-

Business or sector Replace with type of business or sector

EDUCATION AND TRAINING

Replace with dates (from - to)

[Add separate entries for each course. Start from the most recent.]

Replace with qualification awardedReplace with EQF
(or other) level if
relevant

Replace with education or training organisation's name and locality (if relevant, country)

Write your qualification

- 2019-2011 Associate Professor and Ph.D.Coordinator at Transilvania University of Brasov
- 2011-1993 Professor at Transilvania University of Brasov
- 2019-1997 PhD Coordinator at Transilvania University of Brasov
- 1993-1990 Associate Professor at Transilvania University of Brasov
- 1990-1976 Lecturer of the Transilvania University of Brasov
- 1976-1967 Assistant professor at the Transilvania University of Brasov
- 1976-1975 Researcher at the Technical University of Muenchen, RFG, for completing the experimental research on the PhD thesis (DAAD scholarship)
- 1976 Supporting the PhD thesis "Problems of the main tractor clutch" and obtaining the scientific title of Doctor Engineer in Mechanical Engineering
- 1967-1962 Student at the Faculty of Mechanics, Polytechnic Institute Braşov, graduate with a Mechanical Engineer Diploma, Agricultural Mechanical Specialization
- 1962-1958 Learner at “Dinicu Golescu” High School in Câmpulung-Argeş, graduated with Maturity Diploma
- 1958-1951 Learner at elementary school in Văleni village, Dâmboviţa County
 - Replace with a list of principal subjects covered or skills acquired
 - Mathematical Analysis, Analytical Geometry and Special Mathematics,
 - Materials Technology, Metal Study, Technical Drawing
 - Specialized disciplines in the field of designing, manufacturing, exploiting and repairing machinery from agriculture and food industry
 -

PERSONAL SKILLS

[Remove any headings left empty.]

Mother tongue(s)
Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
German	- B1/2	C1/2	B1/2	B1/2	B1/2
	Replace with name of language certificate. Enter level if known.				
Russian , English	A1/2	B1/2	B1/2	A1/2	B1/2
	Replace with name of language certificate. Enter level if known.				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Replace with your communication skills. Specify in what context they were acquired.

Good communication skills acquired through the experience of a university professor

Organisational / managerial skills Replace with your organisational / managerial skills. Specify in what context they were acquired.
 Doctoral coordinator for 22 years, 28 confirmed doctors

Job-related skills Replace with any job-related skills not listed elsewhere. Specify in what context they were acquired.

- a good knowledge of the specific issues of higher education in Romania

Digital skills

good knowledge of Microsoft Office™ tools gathered in didactic and research work

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
: BASIC USER	- INDEPENDENT USER	- INDEPENDENT USER	- INDEPENDENT USER	- INDEPENDENT USER

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Replace with name of ICT-certificates

Replace with your other computer skills. Specify in what context they were acquired.

- good command of office suite (word processor, spread sheet, presentation software)

Other skills Replace with other relevant skills not already mentioned. Specify in what context they were acquired.

- a good knowledge of the student's psychology, acquired in the 52 years of activity in higher education

ADDITIONAL INFORMATION

SCIENTIFIC RESEARCH CONTRACTS

1. 20/1975, Tracking in operation and establishing the reliability of the TV-12 bus, Beneficiary: ICPAT Brasov, Team: Erlicz, I, Nagy, T., Brătucu, Gh.
2. 16/1976, Regime of calculating the working equipment of wheeled tractors with bulldozer blade or front loader, considering optimal utilization of available power, Beneficiary: ICPAT Braşov, Collective: Nişescu, Gh., Dumitrescu, C., Ghinea, T., Brătucu, Gh., Popescu, S.
3. 28/1977, Researches on the development of maintenance technology, revisions and repairs and repair cycles for tractors and agricultural machinery, ICMA beneficiary Bucharest, Responsible for work Brătucu Gh.
4. 30/1977, Theoretical study and analysis of the SM-800 tractor project for the appreciation of the constructive and functional parameters, cinematic and dynamic, Beneficiary: U. Tractorul Braşov, Collecting: Nişescu, Gh., Popescu, S., Dumitrescu, Ghinea, T., Brătucu, Gh., Rus, Fl.
5. 6-R-4/1978, Studies and researches for establishing the appropriate type of device for displacement and cleaning of sugar beet in the experimental fields, Beneficiary: ICMA Bucharest, Responsible for work Brătucu Gh.
6. 5-R-3/1978, Studies and researches for establishing the appropriate type of device with probe for sugar beet release in the experimental fields, Beneficiary: ICMA Bucharest, Responsible work Brătucu Gh.
7. 5/1978, Research of the dynamic behavior of the A 1800-A tractor in aggregate with agricultural machinery, Beneficiary: U. Tractorul Braşov, Collective: Popescu, S., Dumitrescu, C., Ghinea, T., Brătucu, Gh. Rus, Fl.
8. 130/1979, AK6-80 Removal, Repair and Mounting Technology from the A 1800-A tractor, Beneficiary: ICMA Bucharest, Responsible for the work Brătucu Gh.
9. 141/1979, Establishment of the GV-80 Revolution Removal, Repair and Mounting Technology from the 1800-A Tractor, Beneficiary: ICMA Bucharest, Responsible for Brătucu Gh.
10. 20/1979, Theoretical and experimental study on the dynamic demands of TAF-650 tractor, Beneficiary: ICPUPS Bucharest, Collective: Nişescu, Gh., Rus, Fl, Popescu, S., Brătucu, Gh., Ghinea, T.
11. 26/1980, Researches regarding the realization of a plant for harvesting vibrant fruit shrubs, Beneficiary: SCP Sibiu, Collective: Dumitrescu, C., ... Brătucu, Gh.
12. 53/1981, Study of the exploitation behavior and reliability of the T2-AM winch on the TAF-650 forest tractor, Beneficiary: ICPUPS Bucharest, Responsible for the work: Brătucu, Gh.
13. 125/1983, Elaboration of the technology, operation plans and documentation for the SDVs necessary for the centralized repair of the U 650 tractor installation, Beneficiary: ICSITMUA Bucharest, Responsible: Brătucu, Gh.
14. 141/1983, Phase I: Study of the possibilities of equipping the ARO-240 car with agricultural machinery. Designing power sockets and suspension mechanisms and building a prototype mower. Beneficiary: ARO Câmpulung, Collective: Popescu, S., Mugea, N., ... Brătucu, Gh., ...
15. 141/1983, Phase II: Design, execution and testing of the functional model of ARO-240 equipped with devices and aggregates for use in agricultural works, Beneficiary: ARO Câmpulung, Collective: Popescu, S., Mugea, N., ... Brătucu, Gh., ...
16. 20/1979, Theoretical and experimental study on the dynamic demands of TAF-650 tractor, Beneficiary: ICPUPS Bucharest, Collective: Nişescu, Gh., Rus, Fl, Popescu, S., Brătucu, Gh., Ghinea, T.
17. 158/1984, Elaboration of the dismantling, repairing and assembling technology of the self-propelled C-14U, Beneficiary: ICSITMUA Bucharest, Responsible: Brătucu, Gh.
18. 30/1985, The study, research and design of the equipment for a mobile laboratory necessary for the investigation of the agricultural aggregates for working on sandy fields, Beneficiary: SCCPN Dăbuleni, Collective: Rus, Fl., ... Brătucu, Gh.
19. 40/1985, Elaboration of the dismantling, repairing and mounting technology of the tractor U-1010 DT, Beneficiary: ICSITMUA Bucharest, Responsible: Brătucu, Gh.
20. 129 / 1987-1989, Designing the devices for repairing the tractor U 1010 DT and determining the wear of the tree line at the engine D H10, Beneficiary: ICSITMUA Bucharest, Responsible: Brătucu, Gh.
21. 120/1988, Installation for torque-controlled tightening of the screws on the motor mounting flow or for removing the screws when dismantling them, Beneficiary: SMA Harman - Braşov, Collective: Brătucu, Gh., Mugea, N., Csatlós, C .
22. 55/1989, realization and modernization of machinery for mechanization of works in greenhouses and vegetable farms, Beneficiary: I. Sere Codlea, Collective: Brătucu, Gh., Mugea, N., Rus, Fl, Csatlós, C.
23. 25/1990, Hydraulic installation for tightening screws with controlled moments, Beneficiary: ICSITMUA Bucharest, Responsible: Brătucu, Gh.
24. 5005 / 15-1993, The study of the reliability of tractors manufactured in Romania between 1987 and 1993, Beneficiary: M.I.S Bucharest, Project manager: Brătucu, Gh.
25. 662 / B / 1994, Study of methods and technologies for repairing tractors and designing equipment used for repairs, Beneficiary: M.C.T Bucharest, Project manager: Brătucu, Gh.
26. 5760 / 25.07.2000, Establishing the principles underpinning the design of a maintenance system for technical equipment in Romanian agriculture. Beneficiary: INMA - Bucharest; Amount: 5000000 lei; Project manager: Brătucu Gh.
27. 317 (11) / 2001, Studies and research on the use of used parts in the maintenance of agricultural equipment. Beneficiary: INMA - Bucharest; Amount: 5000000 lei; Project manager: Brătucu Gh.
28. 33459 / 17.07.2002, Theme no. 1, CNCSIS Code 605. Researches on the reduction of pollution to vine treatments by recovering losses; Beneficiary: CNCSIS - Bucharest; Amount: 20,000,000 lei; Grant Director: Brătucu Gh.
29. 33253 / 25.06.2003, Theme no. 1, CNCSIS Code 598. Certifications regarding the reduction of the pollution to the vine treatments, applying the phytosanitary treatments; Beneficiary: CNCSIS - Bucharest; Amount: 30.500,000 lei; Grant Director: Brătucu Gh.
30. 8326 / 13.10.2003, Assimilation of a modern technical equipment for the sowing of cereal grains directly into non-terraced land (INVENT Program); Beneficiary: INMA - Bucharest; Amount: 15,000,000 lei; Program Director: Brătucu Gh.
31. 33369 / 29.06.2004, Theme no. 3, CNCSIS Code 1324. Contributions to the preservation of the soil fertility status by realization of a straw cereal sowing equipment in the non-terrain field; Beneficiary: CNCSIS - Bucharest; Amount: 57.500.000 lei; Grant Director: Brătucu Gh.
32. 2013 / 15.09.2004, RELANSIN Program, Subprogram 3, Stage II, Activity II, Prototype design and manufacturing assimilation of a modular seed drill for fertilized cereal grain for 45, 65 and 100 HP wheeled tractors. Beneficiary: INMA - Bucharest; Amount: 30000000 lei; Project manager: Brătucu Gh. ETC.

ANNEXES

List of relevant publications / coordinated research

(Please add a list of relevant publications related to the areas of interest and expertise in research - a selection of 20 titles with active links to the respective publications is recommended)

The list may highlight publications resulted from coordinated PhD research theses

A list of coordinated theses might be added also, if considered helpful for the new potential candidates)

LIST OF RELEVANT PUBLICATIONS /RESEARCH (selection)

1. Brătucu, Gh.: *Untersuchung des Verhaltens von Schlepperkupplungen bei Dynamischer Belastung*, în revista „Grundlagen der Landtechnik”, R.F. Germania, Bd. 27/1977, nr. 2, p. 49-56.
2. Brătucu, Gh., Badiu, E.C., Păunescu, D.D., Lateş, M.T.: *Comparative Analysis of Results of Theoretical and Experimental Researches Regarding the Pushing Force Exercised by Wind on Some Models of Greenhouse for Vegetables and Flowers*, in Bulletin of the Transilvania University of Braşov, Series II: Forestry • Wood Industry • Agricultural Food Engineering • Vol. 9 (58) No.2 - 2016 pag.81-90, ISSN 2065-2135 (Print), ISSN 2065-2143(CD-ROM).
http://webbut.unitbv.ro/BU2016/Series%20II/BULETIN%20I/11_Bratucu.pdf
3. Brătucu, Gh., Marin, A.L., Păunescu, D.D.: *Experimental Researches Concerning the Optimization of the Duration of the Drying Process for the Apples Conservation*, in Bulletin of the Transilvania University of Braşov • Series II • Vol. 9 (58) No. 1, 2016 pag. 59-68 - ISSN 2065-2135 (Print), ISSN 2065-2143(CD-ROM).
http://webbut.unitbv.ro/BU2016/Series%20II/2016/BULETIN%20I%20PDF/03_BRATUCU.pdf
4. Badiu, E.C., Brătucu, Gh., Coşarcă, D.C.: *Researches Regarding the Use Predictive Reability (Studies to Perfecting of Buildings Calculus and the Design of Greenhouses Located on the Roof of Buildings*, in Bulletin of the Transilvania University of Braşov, Series II: Forestry • Wood Industry • Agricultural Food Engineering • Vol. 11(60) No.1 - 2018 pag.89-98, ISSN 2065-2135 (Print), ISSN 2065-2143(CD-ROM).
http://webbut.unitbv.ro/buletin/Series%20II/2018/BULETIN%20I%20PDF/08_BAdu.pdf
5. Brătucu Gh., Păunescu D.D., Ghinea, T.: *“Dynamical and Mathematical Modelling of the Working Process of the Pressing Mechanism on the Hay and Straw Baler Machine”*, în Bulletin of the Transilvania University of Braşov, VOL. 8 (57) No. 2– 2015, Series II – Forestry • Wood Industry • Agricultural Food Engineering, pag. 77-82, ISSN 2065-2135 (Print), ISSN 2065-2143(CD-ROM)
http://webbut.unitbv.ro/BU2015/Series%20II/BULETIN%20I/AFT_03-Bratucu.pdf
6. Vlăduţ, V., Pirmă, I., Florea, C., Brătucu, Gh., Păunescu, D.: *Utjecaj amplitude vibracija na kvalitetu sjekanog ljekovitog bilja pri sortiranju; Influence of the vibration amplitude on the quality of shredded medicinal vegetal material subjected to sorting*, Symposium “Actual Tasks on Agricultural Engineering”, Opatija, Croatia, 2014, ISSN 1848-4425, pag. 273 – 281
<http://atae.agr.hr/proceedings.htm>
7. Vlad, C., Brătucu, Gh., Burnichi, F.: *Reduction of the energetic consumption and preservation of the soil structure cultivated with vegetables by using a complex aggregate*, in „Bulletin USAVM Cluj-Napoca” secțiunea Horticulture VOL 71(1) / 2014, pag. 111-119, Print ISSN 1843-5254, Electronic ISSN 1843-5394.
8. Brătucu, Gh., Păunescu, D.D.: *“Establishing the Optimum Operating Mode of Sugar Beet Head Cutting Equipment Using a Cylindrical Palpator”*, în Bulletin of the Transilvania University of Braşov, VOL. 8 (57) No. 1– 2015, Series II – Forestry • Wood Industry • Agricultural Food Engineering, pag. 51–56, ISSN 2065-2135 (Print), ISSN 2065-2143(CD-ROM)
http://webbut.unitbv.ro/BU2015/Series%20II/BULETIN%20I%20PDF/07_BRATUCU.pdf
9. Brătucu, Gh., Marin, A.L., Florea, C.C.: *Research On Carrot Drying By Means Of Solar Energy*, articol publicat în Bulletin of the Transilvania University of Braşov, VOL. 6 (55) No. 1 – 2013, Series II – Forestry • Wood Industry • Agricultural Food Engineering, pag. 91-98.
http://webbut.unitbv.ro/BU2013/Series%20II/BULETIN%20II%20PDF/13_BRATUCU_Gh.pdf
10. Marin, A.L., Bratucu, Gh.: *Research regarding Energy Optimization in the Dehydration Process of Tomatoes*, articol publicat în Bulletin of the Transilvania University of Braşov, VOL. 6 (55) No. 1 – 2013, Series II – Forestry • Wood Industry • Agricultural Food Engineering, pag. 77-84.
http://webbut.unitbv.ro/BU2013/Series%20II/BULETIN%20II%20PDF/11_Marin.pdf
11. Florea, C., Bratucu, Gh.: *Study Regarding The Conditioning Operation Of Medicinal Plants And Specific Separation Equipment*, articol publicat în Bulletin of the Transilvania University of Braşov, VOL. 6 (55) No. 1 – 2013, Series II – Forestry • Wood Industry • Agricultural Food Engineering, pag. 85-90.
http://webbut.unitbv.ro/BU2013/Series%20II/BULETIN%20II%20PDF/12_Florea%20C.pdf
12. Danciu, A., Brătucu, Gh., Vlăduţ, V., Brckic, M.: *Distribuija dimensiunilor elementilor pompelor de injecție degradați în vederea restabilirii stării de funcționare*, în Revista INMATEH - Agricultural Engineering, vol. 37, no. 2 / 2012, p. 69-80, e: ISSN: 2068 – 2239; p: ISSN: 2068 – 4215, Bucureşti, România.
13. Brătucu, Gh., Pasztor, J., Păunescu, C.: *Optimizing the Exploitation of Agricultural System Tractor-Digging Soil Machine for Preparing the Germination Bed in Greenhouses*, in Bulletin of the Transilvania University of Braşov • Vol. 4 (53) No.1 – 2011, Series II - Forestry • Wood Industry • Agricultural Food Engineering, p. 89-96, ISSN 2065-2135 (Print), ISSN 2065-2143 (CD-ROM).
<http://webbut.unitbv.ro/BU2011/Series%20II/BULETIN%20II%20PDF/Bratucu%20Gh.pdf>
14. Brătucu, Gh.: *Mathematical Model of the Energetic Consumption for Digging Soil Machines in Greenhouses*, in Bulletin of the Transilvania University of Braşov, Vol. 3(52), 2010, Series II, p143-150, ISSN 2065-2143.
<http://webbut.unitbv.ro/BU2010/Series%20II/BULETIN%20II%20PDF/Agricultural%20Food%20Engineering/Bratucu%20Gh.pdf>
15. Brătucu, Gh., Căpăţină, I., Păunescu, C.G.: *Fabricarea echipamentelor tehnice pentru agricultură și industria alimentară*, Editura Universității Transilvania, Braşov, 2009, ISBN 978-973-635-925-5.
16. Rădulescu, R., Brătucu, Gh., Popa, G., *Fabricarea pieselor auto și măsurări mecanice*, E.D.P., Bucureşti, 1983
17. Brătucu, Gh., Bică, C., Marin, A.L., Păunescu, C.G.: *Transportul intern, manipularea și depozitarea produselor agroalimentare*, Editura Universității Transilvania Braşov, 2010, ISBN 978-973-635-924-8.
18. Brătucu, Gh., Păunescu, D.D., Păunescu, C., Căpăţină, I.: *Întrîneria și repararea echipamentelor din industria alimentară*, Editura Universității Transilvania din Braşov, 232 pag., Braşov, 2014, ISBN 978-606-19-0357-3.
19. Brătucu, Gh., Păunescu, C.G., Căpăţină, I., Pirmă, I.: *Calitatea echipamentelor pentru procesarea produselor alimentare*, Editura Universității Transilvania Braşov, 2012, ISBN 978-606-19-0129-6.

(Peste 450 articole și 30 cărți publicate)